

Figure 1A-D

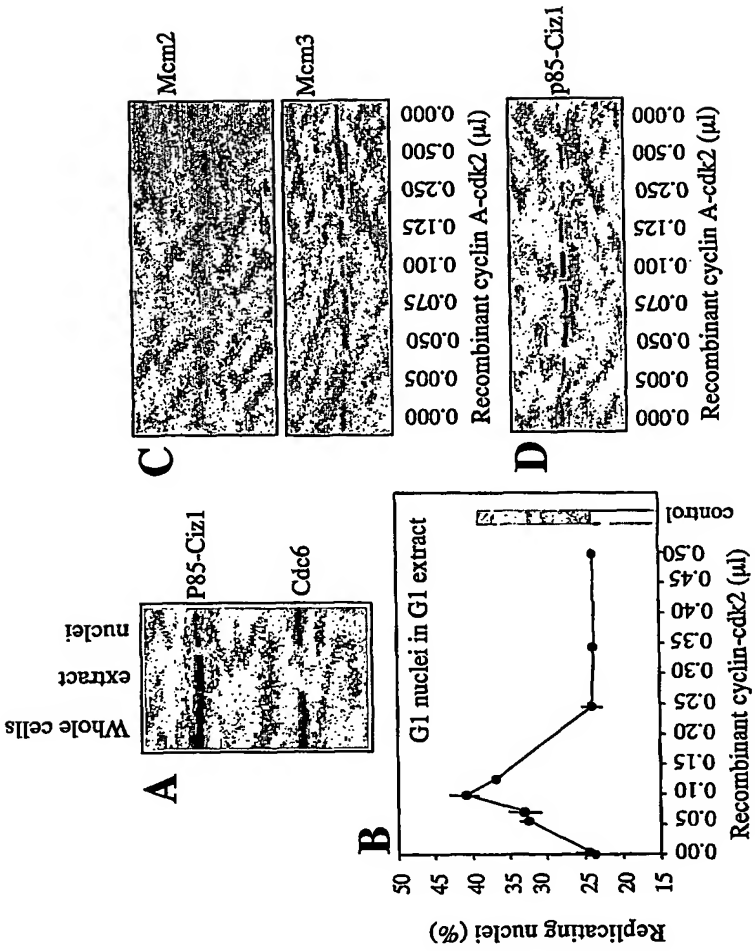


Figure 2A and B

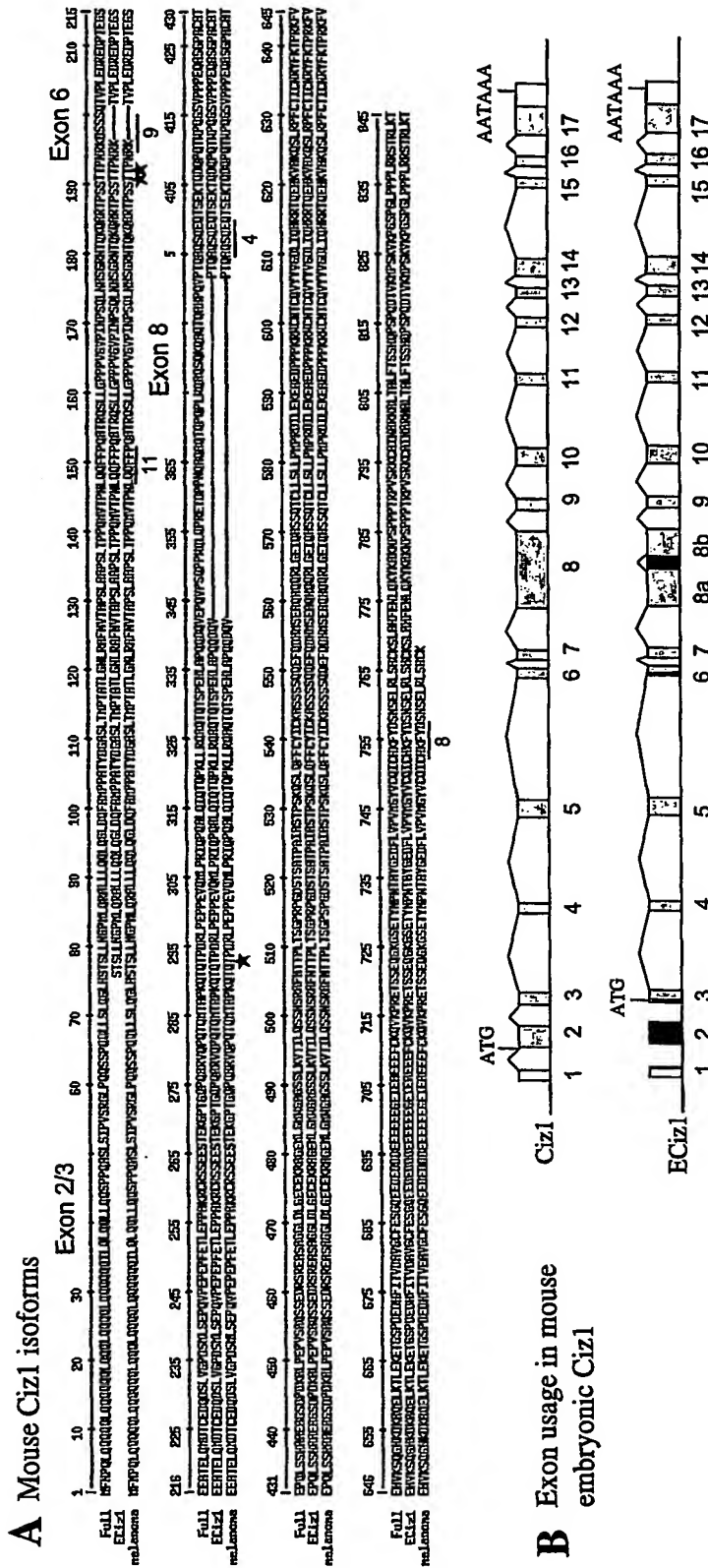


Figure 2C and D

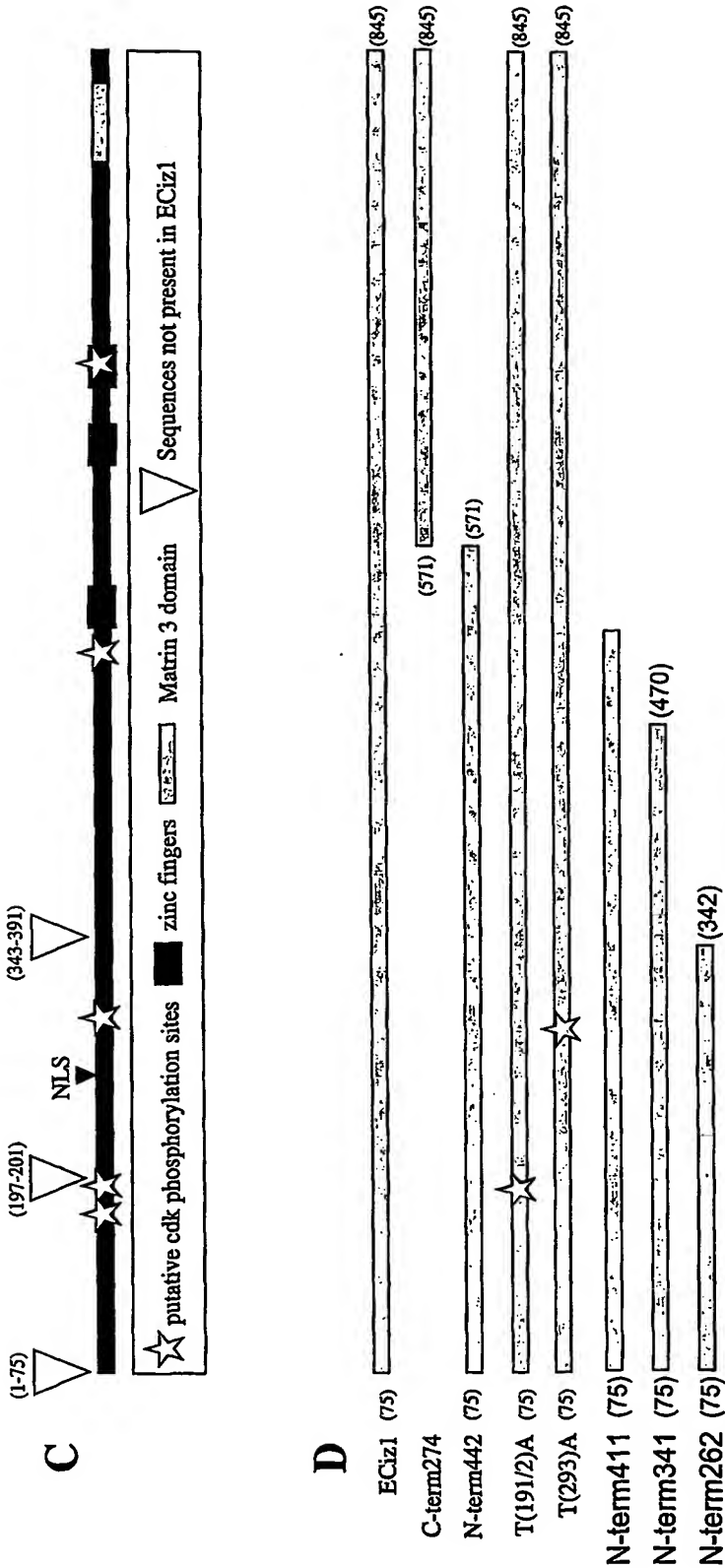


Figure 3A to I

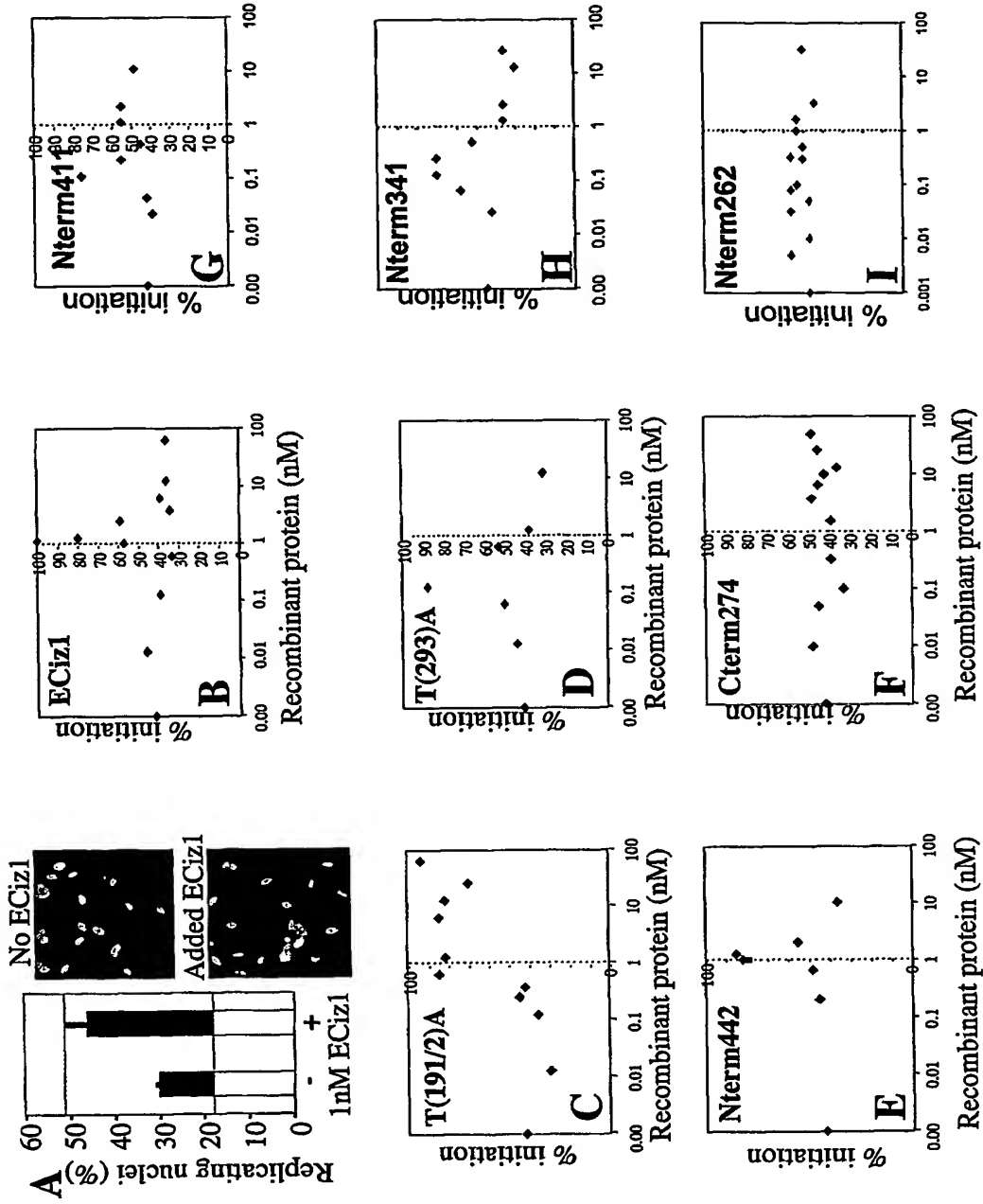


Figure 4A-C

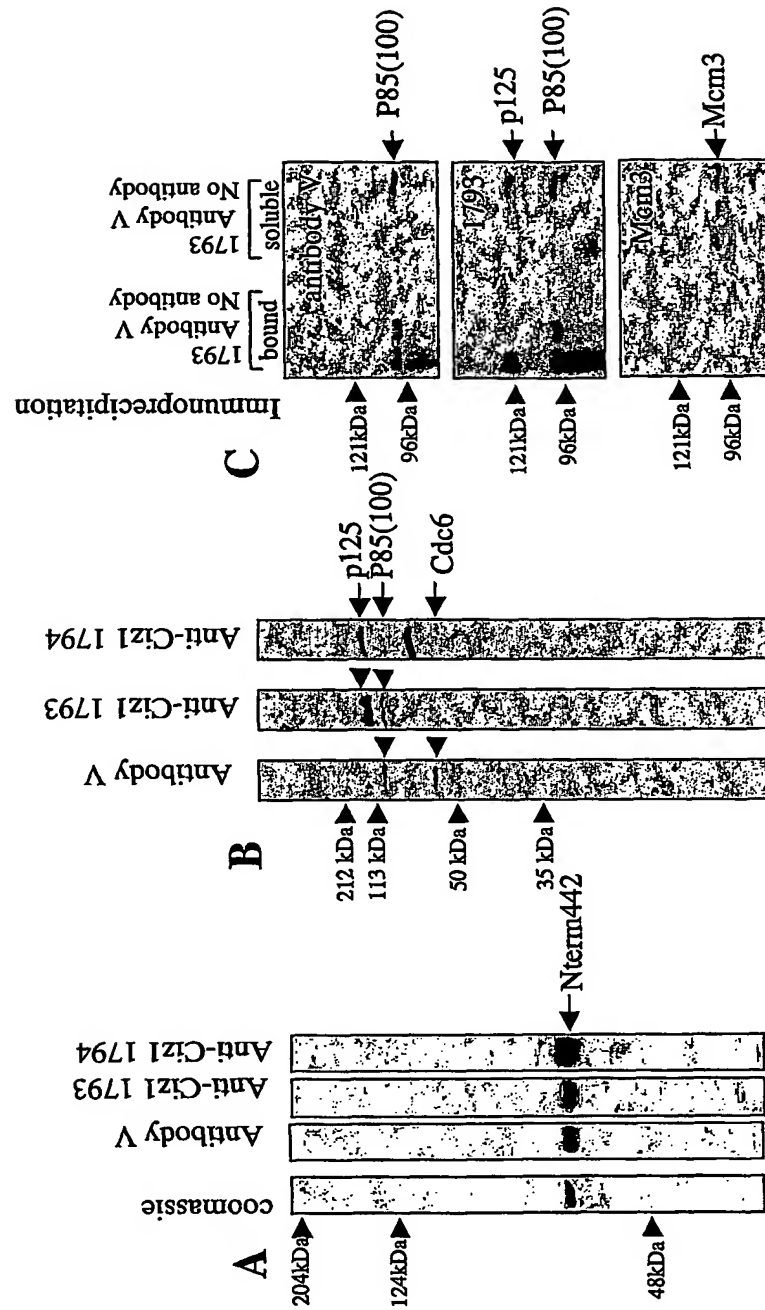


Figure 5A-F

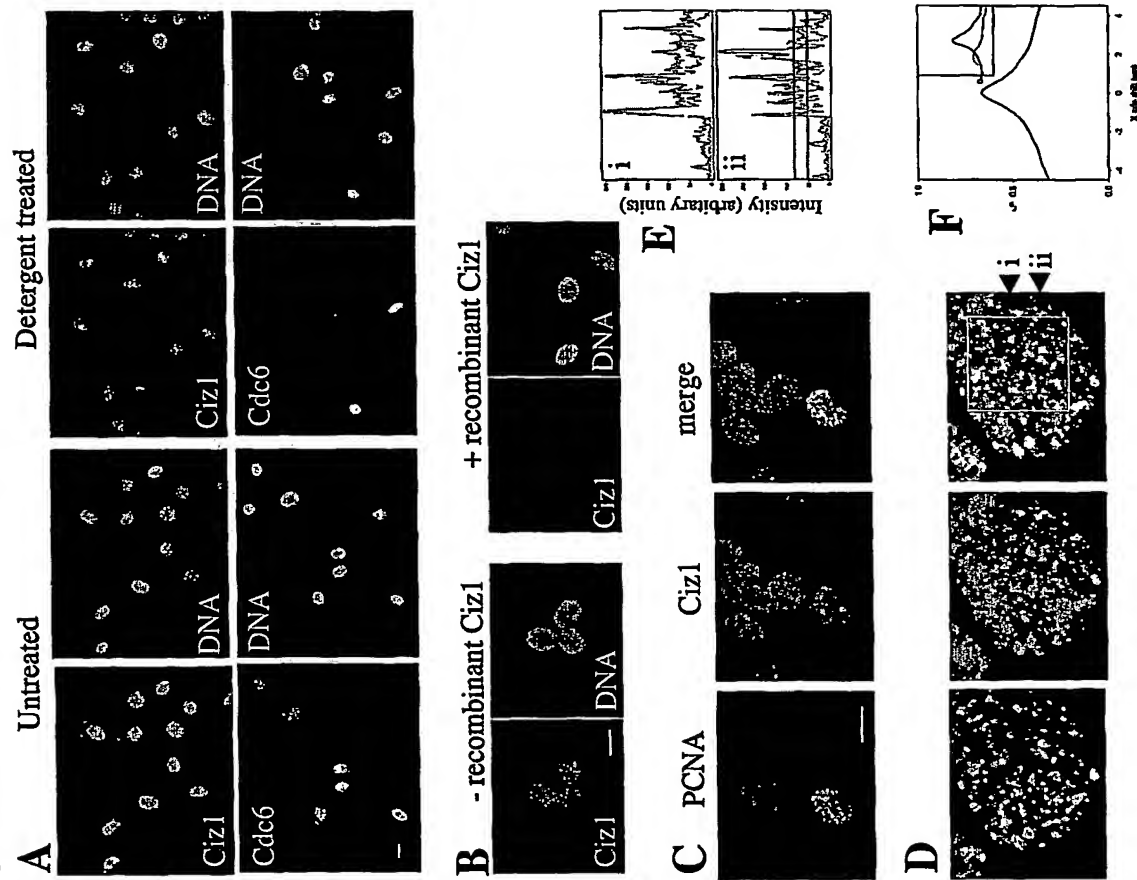


Figure 6A and B

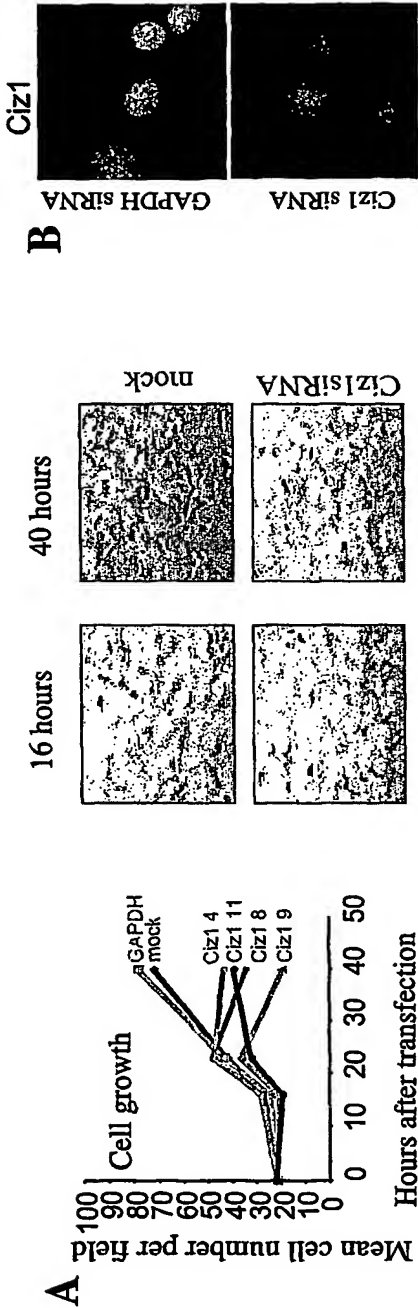


Figure 6C to F

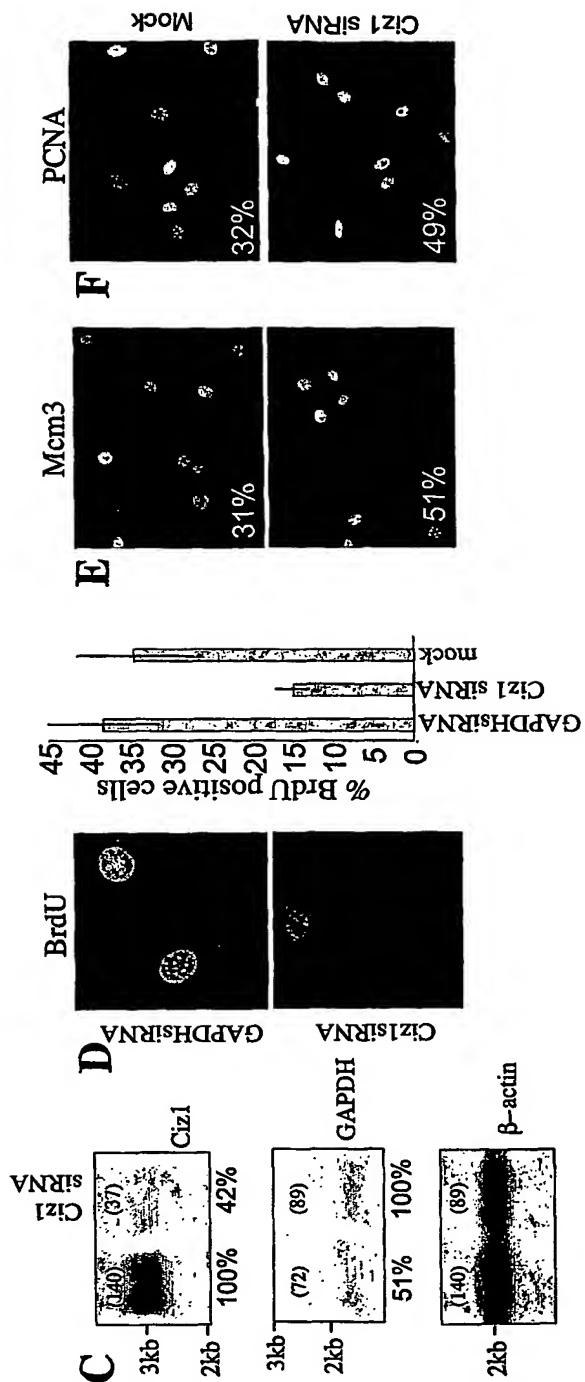


Figure 7

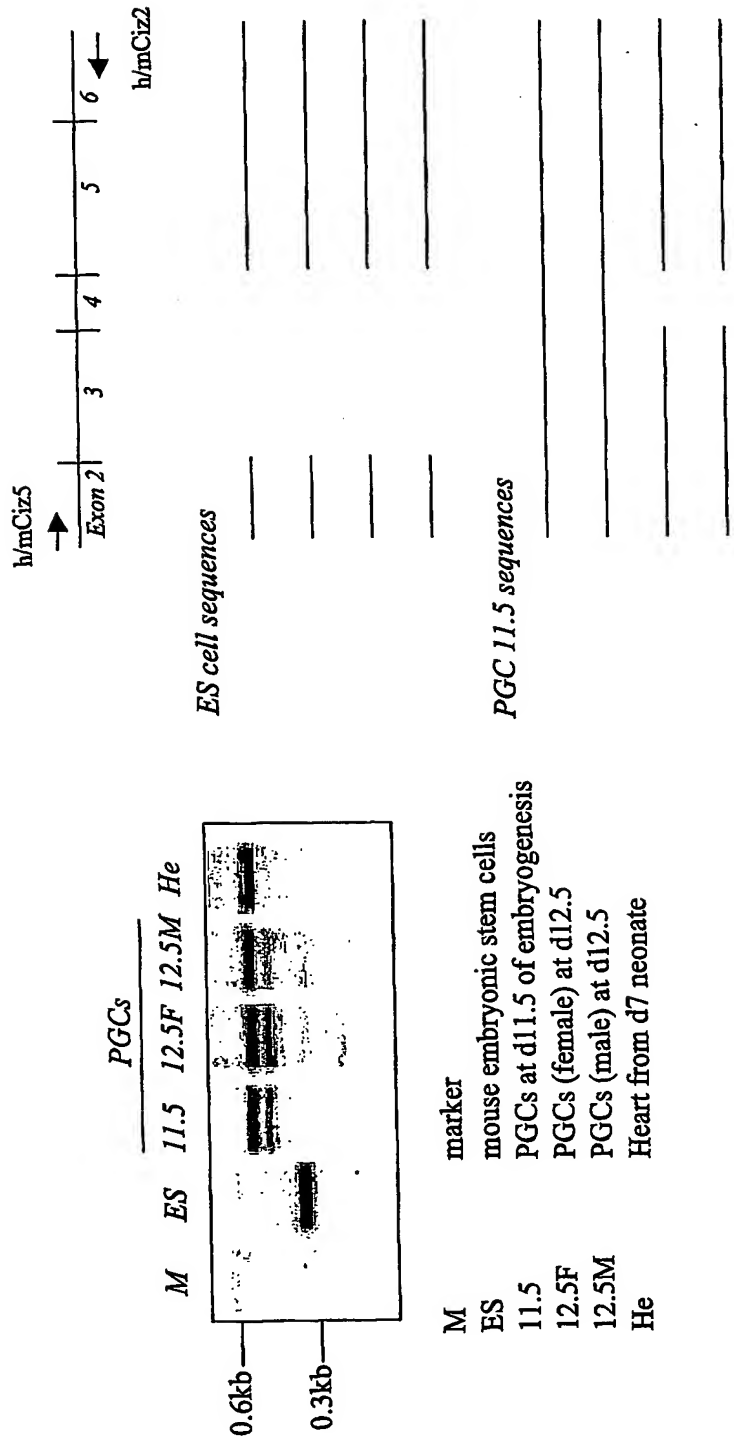


Figure 8A to D

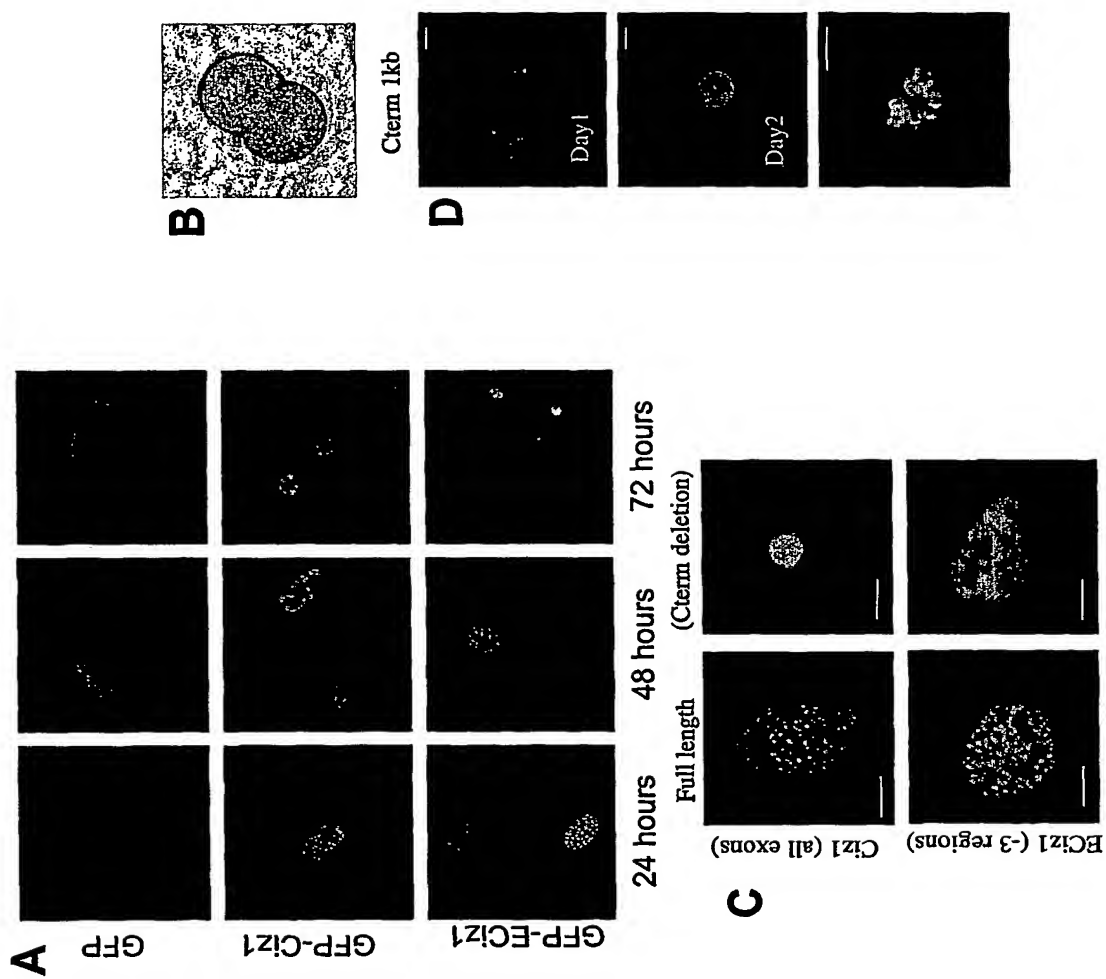


Figure 8E

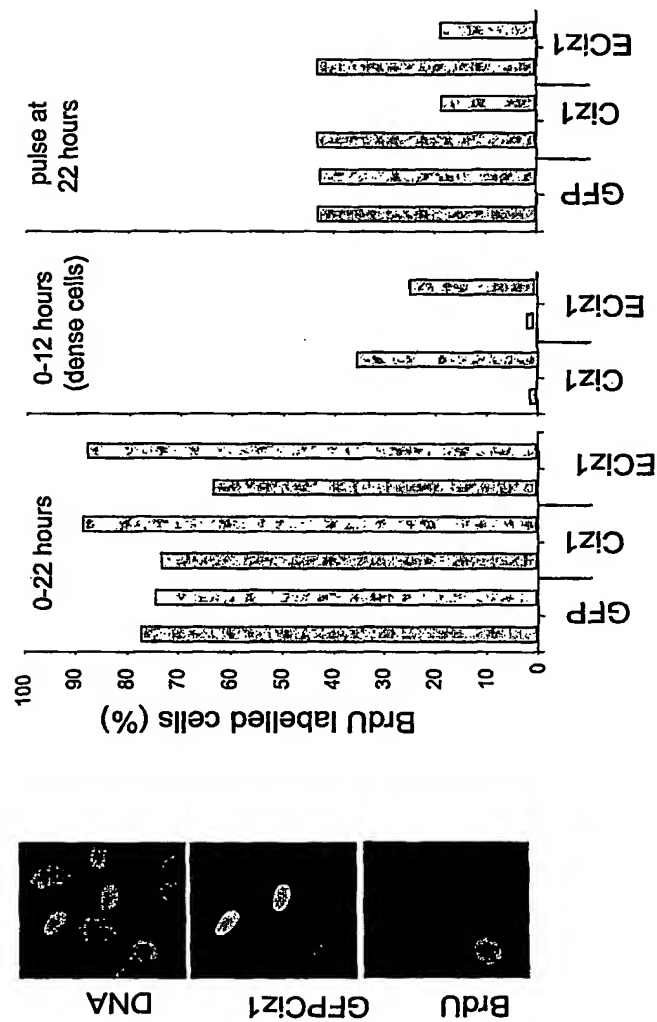
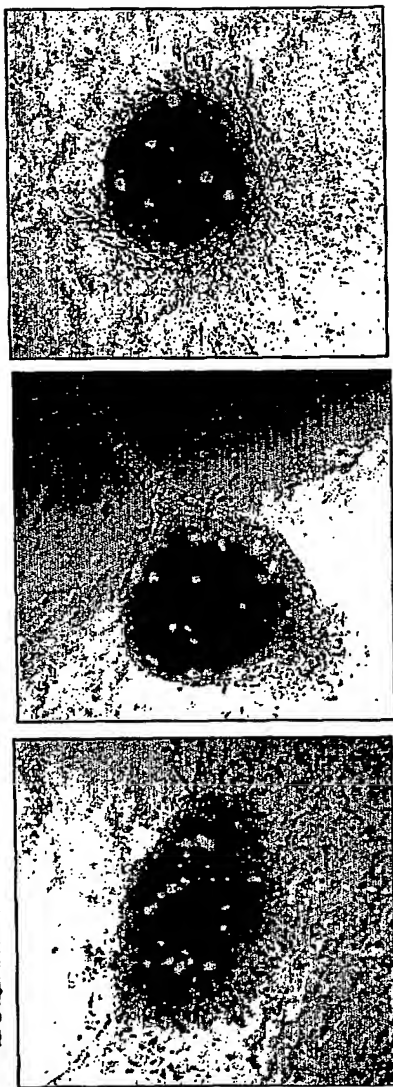


Figure 9A

ECiz1 Nterm442



Ciz1 Nterm(442 equivalent)

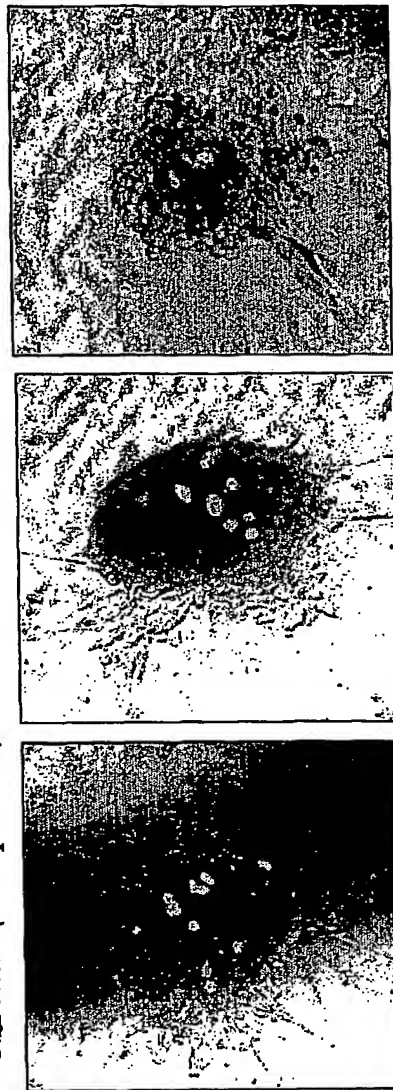


Figure 11a

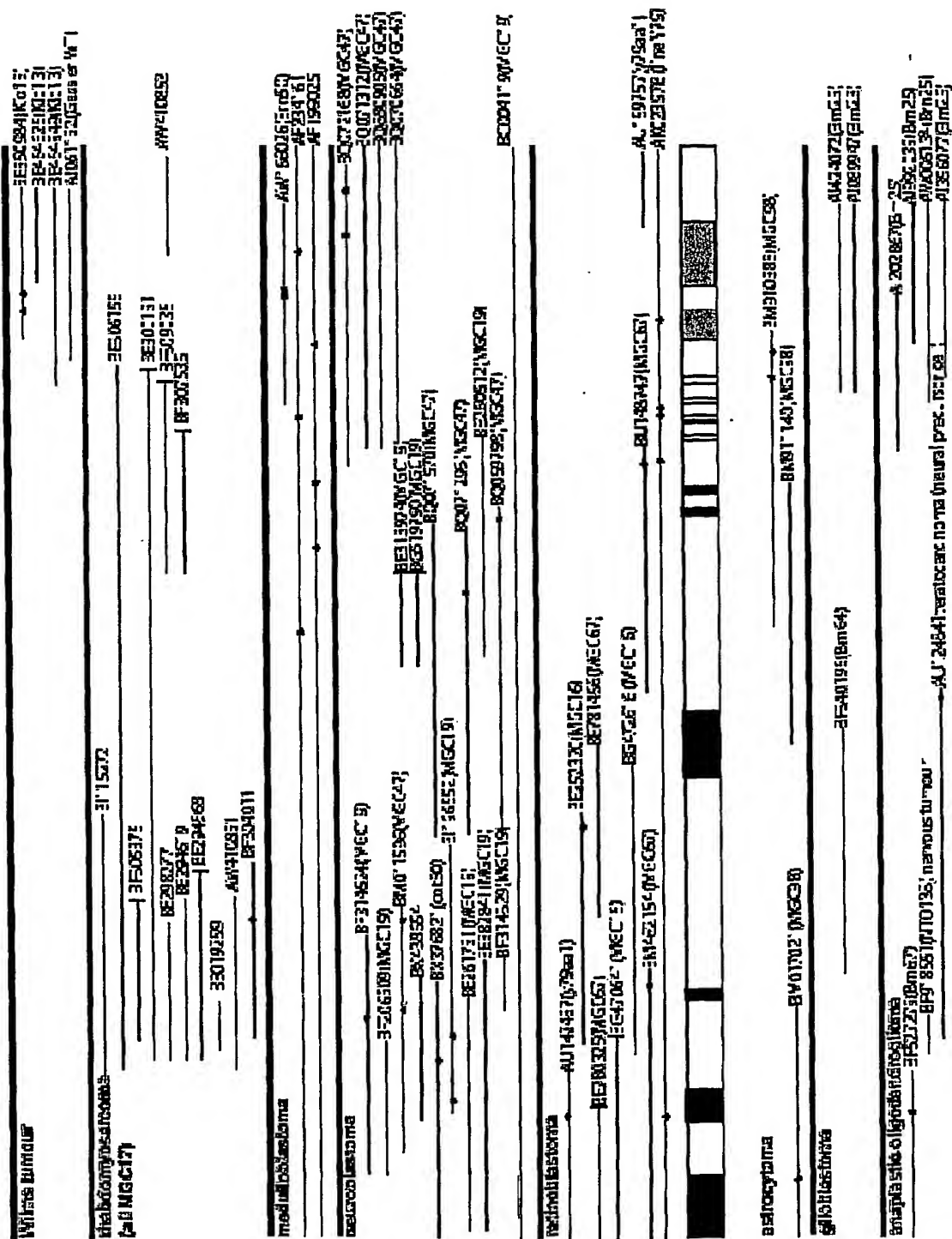
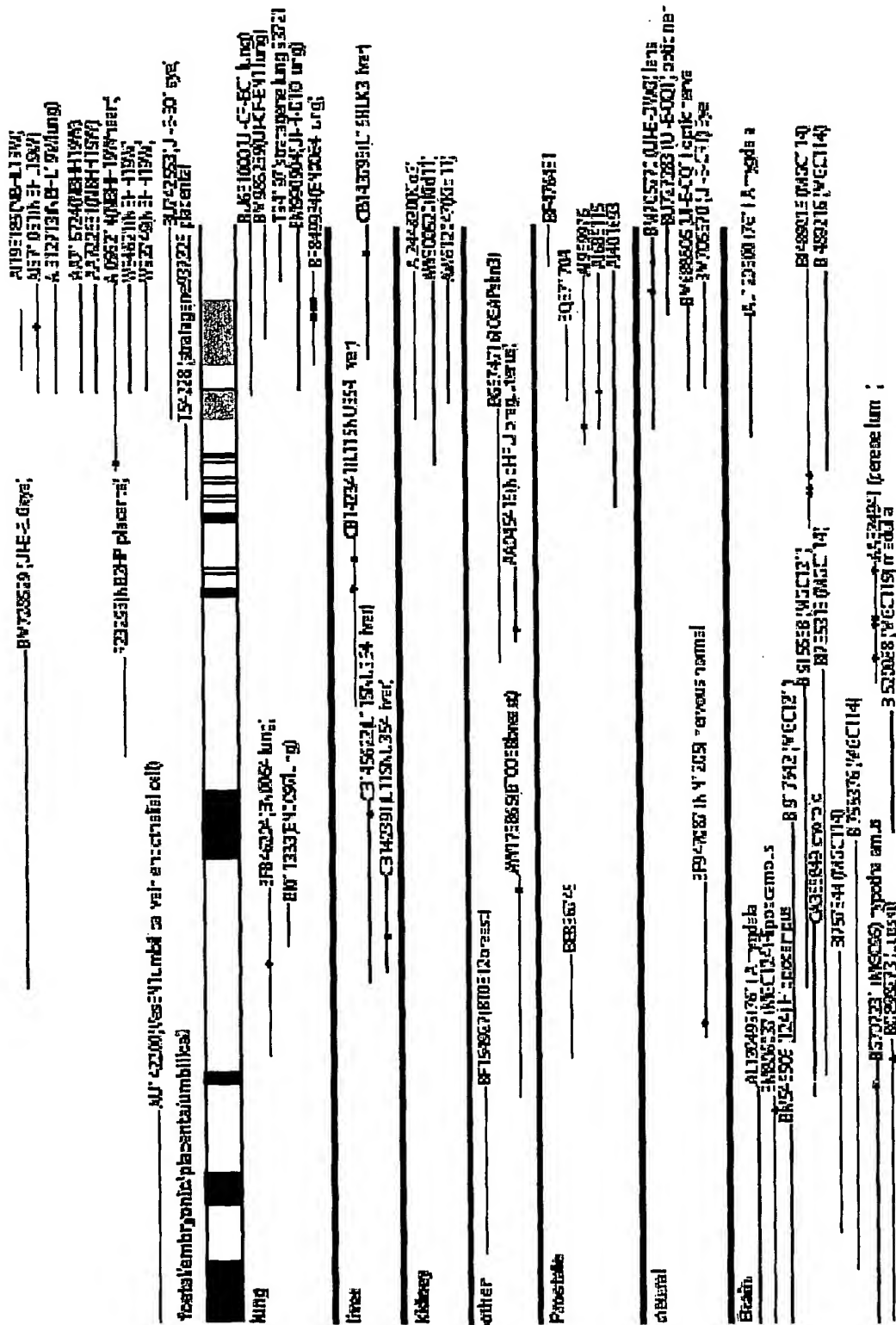
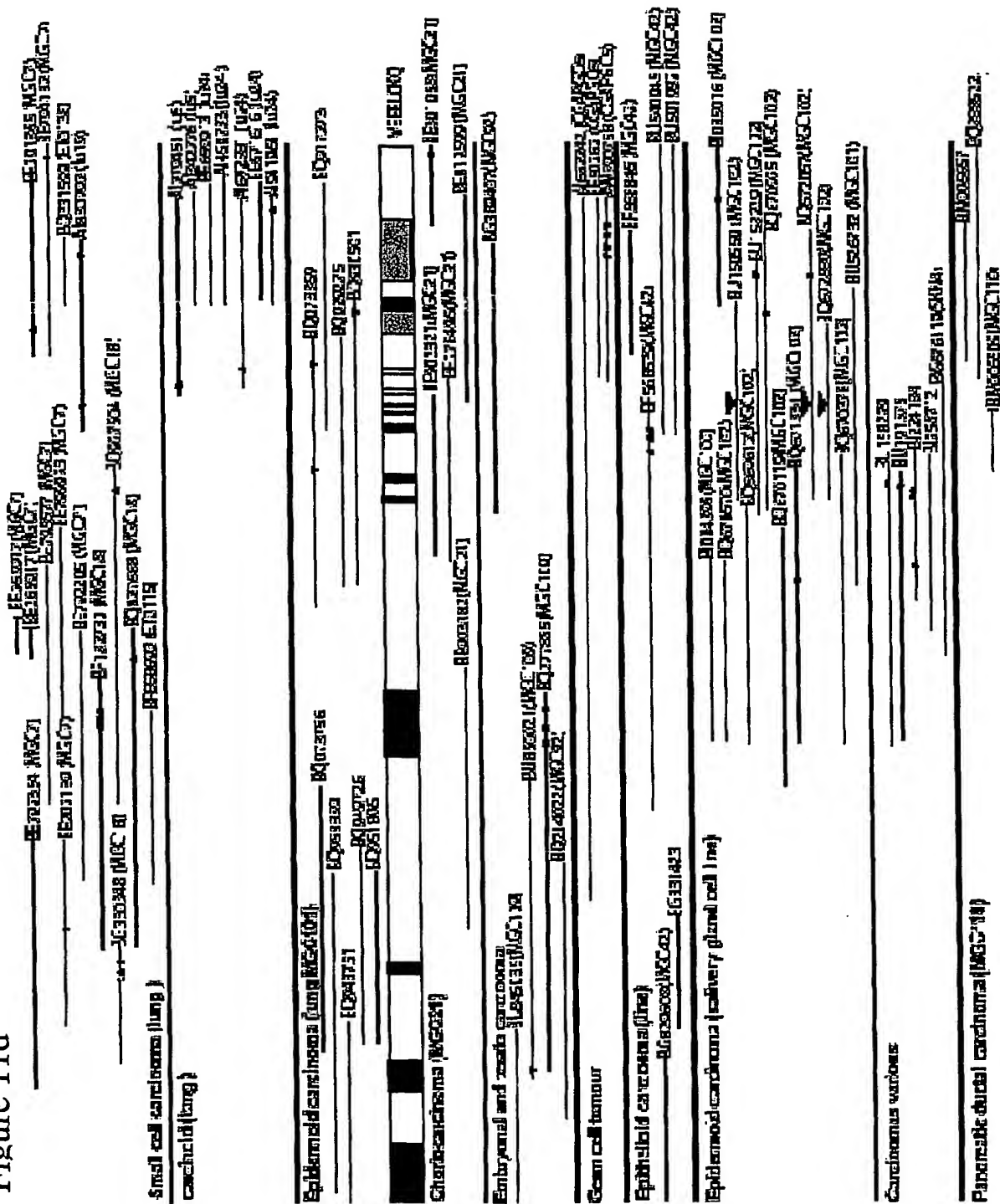


Figure 11b






Non-Cancer


Figure 11d




[illegible]

 LQQQQQLLQLQQQLQQQLQQQLLQLQQLLQQSPQPQLPMAVSRGLPPQPPQQLNLQGTNSASLLNGSM
 QQLQQL QQQQLQQQL QQQQLLQLQQ LLQGSPP
 MFSQQQQQL QQQQLQQQL QQQQLQQQL LLQGSPPQAPLP


'Qs'



'exon 4'




'DSSSQ'




DSSSQ

'exon 8 repeats'



'VEEELCKQ'



VEEELCKQ







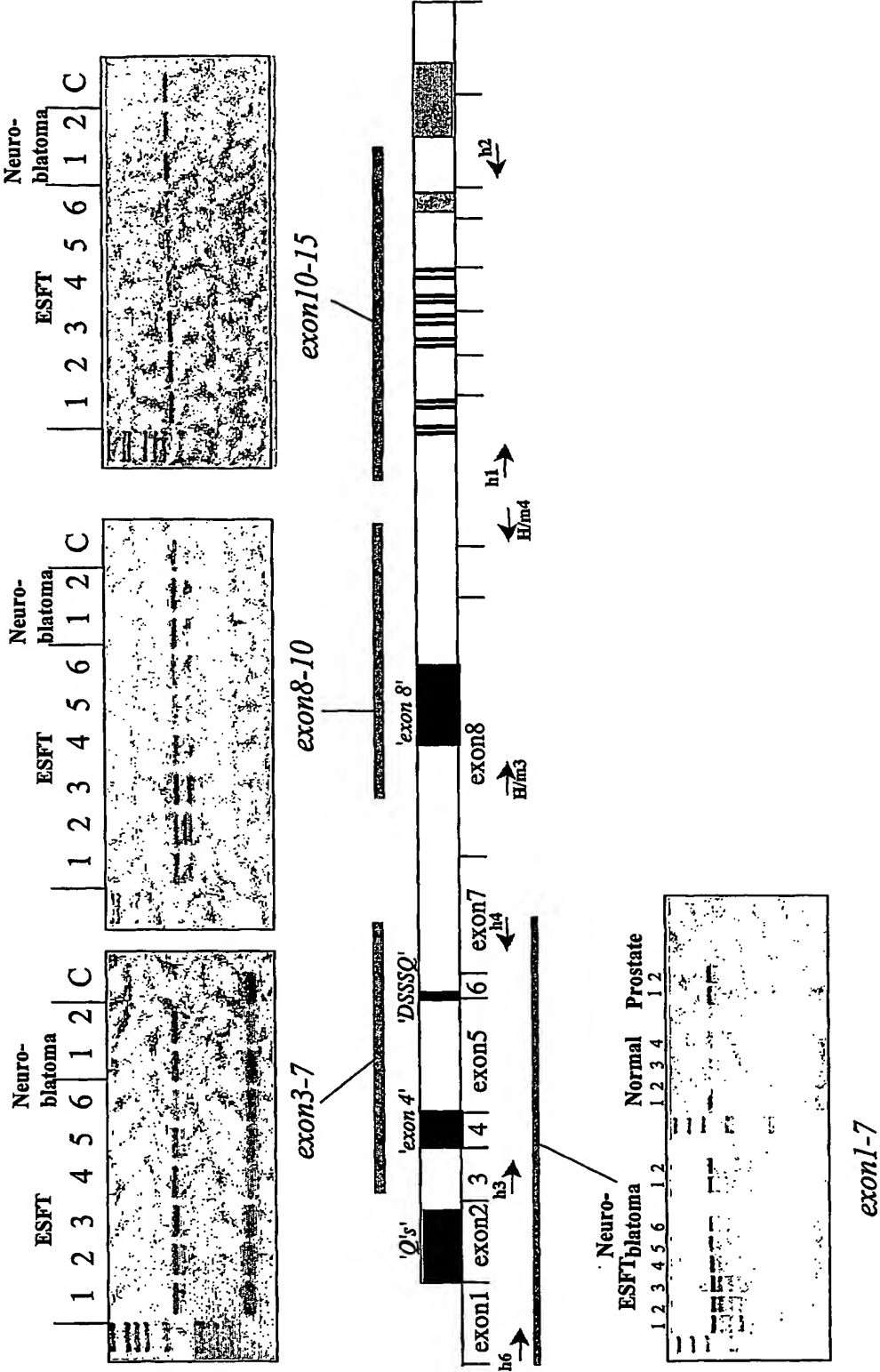
 GLDQFAMPPTYDTAGLTMTPTATL
 PAVQPPQAHSGGPRQ VQLQQAEPK LKQQAQTSPHVLQKQ VAPQLQQAEP PAKQVQ
 PAVQPPQAHSGGPRQ VQLQQAEPK LKQQAQTSPHVLQKQ VAPQLQQAEP PAKQVQ
 PAVQPPQAHSGGPRQ VQLQQAEPK LKQQAQTSPHVLQKQ VAPQLQQAEP PAKQVQ
 PAVQPPQAHSGGPRQ VQLQQAEPK LKQQAQTSPHVLQKQ VAPQLQQAEP PAKQVQ
 PPTPRRDVFAHVPQGWSTARLVTDIM

Figure 12A



70 / 15 10 28

Figure 12B

Summary of PCR products									
	1	2	3	4	5	6	N1	N2	293
'DSSSQ'	0	0	0	0	2	0	1	2	0
'exon4'	1*	0	1*	3	0	3	1	0	0
'FL'	4	1	5	2	2	3	8	3	4
other	0	0	0	1	0	0	1	0	0
ESFT's Neuroblastomas									
DSSSQ 2/26						DSSSQ 3/16			
Exon4 8/26						Exon4 1/16			
Examples of PCR products									
Ewings 6									
Neuroblastoma 2									
HEK293									

Figure 13A

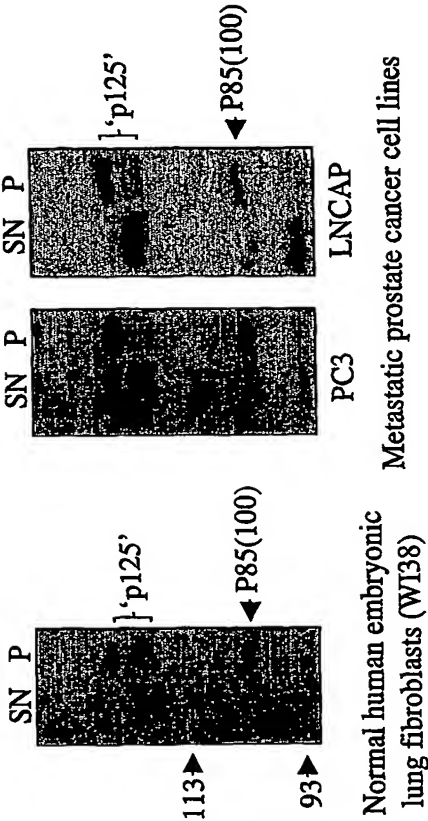
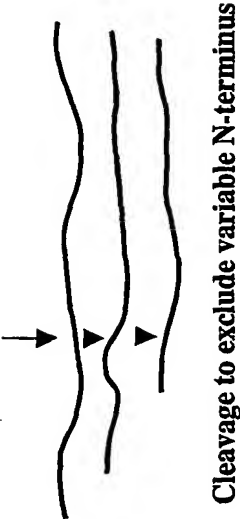
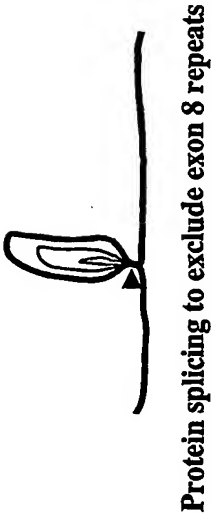


Figure 13B



CATGTTCAAC CCGCAACTCC AGCAGCAGCA ACAGTTGCAG CAGCAGCAGC
AACAGTTGCA GCAGCAGCTC CAGCAGCAGC AGCTCCAGCA GCAGCAACAG
CAGATACTGC AGCTCCAACA GCTGCTGCAA CAGTCCCCAC CACAGGCCTC
CTTGTCATT CCTGTCAGCC GGGGCCTCCC CCAGCAGTCA TCCCCGCAAC
AGCTTCTGAG TCTCCAGGGC CTCCACTCGA CCTCCCTGCT CAATGGCCCC
ATGCTGCAAA GAGCTTTGCT CCTACAGCAG TTGCAAGGAC TGGACCAGTT
TGCAATGCCA CCAGCCACGT ATGACGGTGC CAGCCTCACC ATGCCTACGG
CAACACTGGG TAACCTCCGT GCTTTCAATG TGACAGCCCC AAGCCTAGCA
GCTCCAGCC TTACACCACC CCAGATGGTC ACCCCAAATC TGCAGCAGTT
CTTTCCCCAG GCTACTCGAC AGTCTCTGCT GGGGCCTCCT CCTGTTGGGG
TCCCAATAAA CCCTTCTCAG CTCAACCACT CAGGGAGGAA CACCCAGAAA
CAGGCCAGAA CCCCCTCTC CACCACCCCC AATCGCAAGG ATTCTTCTTC
TCAGACGGTG CCTCTGGAAG ACAGGGAAGA CCCACAGAG GGGTCTGAGG
AAGCCACGGA GCTCCAGATG GACACATGTG AAGACCAAGA TCACTAGTC
GGTCCAGATA GCATGCTGAG TGAGCCCCAA GTGCCTGAGC CTGAGCCCTT
TGAGACATTG GAACCACCAG CCAAGAGGTG CAGGAGCTCA GAGGAGTCCA
CCGAGAAAGG CCCTACAGGG CAGCCACAAG CAAGGGTCCA GCCTCAGACC
CAGATGACAG CACCAAAGCA GACACAGACC CCGGATCGGC TGCTGAGCC
ACCAGAAGTC CAAATGCTGC CGCGTATCCA GCCACAGGCA CTGCAGATCC
AGACCCAGCC AAAGCTGCTG AGGCAGGCAC AGACACAGAC CTCTCCAGAG
CACTTAGCGC CCCAGCAGGA TCAGGTAGAG CCACAGGTAC CATCACAGCC
CCCATGGCAG TTGCAGCCAC GGGAGACAGA CCCACCGAAC CAAGCTCAGG
CACAGACCCA GCCTCAGCCC CTCTGGCAGG CGCAGTCACA GAAGCAGGCC
CAGACACAGG CACATCCACA GGTACCCACC CAAGCACAGT CACAGGAGCA
GACATCAGAG AAGACCCAGG ACCAGCCTCA GACCTGGCCA CAGGGGTGAG
TACCCCCACC AGAACAAGCG TCAGGTCCAG CCTGTGCCAC GGAACACAG
CTATCCTCTC ACGCTGCAGA AGCTGGGAGT GACCCAGACA AGGCCTTGCC
AGAACCAGTA AGTGCCAGAG GCAAGTGAAGACAGGAGCCGG GAGGCGTCCG
CTGGTGGCCT GGATTTGGGA GAATGTGAAA AGAGAGCGGG AGAGATGCTG
GGGATGTGGG GGGCTGGGAG CTCCCTGAAG GTCACCATCC TGCAGAGTAG
CAACAGCCGG GCCTTTAACA CCACACCCCT CACATCTGGA CCTCGCCCTG
GGGACTCTAC CTCTGCCACC CCTGCCATTG CCAGCACACC CTCCAAGCAA
AGCCTCCAGT TCTTCTGCTA CATCTGCAAG GCCAGCAGCA GCAGCCAGCA
GGAGTTCCAG GATCACATGT CAGAGGCTCA GCACCAACAG CGGCTTGGGG
AAATACAACA CTCGAGCCAG ACCTGCCTGC TGTCCTGCT GCCATGCCT
CGGGACATCC TGGAGAAAGA AGCGGAAGAT CCTCCGCCCA AACGCTGGTG
CAACACCTGC CAGGTGTACT ACGTGGGAGA CTTGATCCAG CACCGTAGGA
CACAGGAGCA CAAGGTTGCC AAACAATCCC TGAGGCCCTT CTGCACCATA
TGCAACCGTT ACTTCAAGAC CCCTCGAAAAG TTTGTGGAGC ACGTGAAGTC
CCAGGGACAC AAGGACAAGG CCAAGAGCT GAAGACACTTGAAAAGGAGA
CAGGCAGCCC AGATGAGGAC CACTTCATCA CTGTGGACGC CGTCGGTTGC
TTTGAGAGTG GTCAAGAAGA GGACGAGGAT GACGACGAGGAAGAAGAAGA
AGAAGGAGAG ATTGAGGCTG AGGAGGAATT CTGCAAGCAG GTGAAGCCGA
GAGAAACATC CTCAGAGCAA GGAAGGGCT CTGAGACGTA CAACCCCAAC
ACAGCCTATG GTGAGGATTT CTGGTGCCA GTGATGGGCT ATGTCTGTCA
AATCTGTCA AAGTTCTACG ACAGCAACTC AGAATTGCGG CTTTCTCACT
GCAAGTCCCT GGCCCACTTT GAGAACCTGC AGAAATACAA AGCCAAGAAC
CCAAGCCCTC CTCTACCCG GCCTGTGAGC CGCAAGTGTG CCATCAACGC
CCGCAACGCC CTGACTGCAC TGTTACCTC TAGCCACCAG CCCAGCCCCC
AGGACACAGT GAAAATGCCC AGCAAGGTGA AGCCTGGATC CCCCAGGACT
CCTCCTCCCC TTCGGCGCTC AACACGCCTC AAAACCTGAT AGAGGGAGCT
CTGGCCACTC AGCCTGACTA AGGCTCAGTC TGCTAATGCT TCCTAGGTAT
CTGTGTAGAA ATGTTCAAGT GGTTGGTGT TTTACTCAA ATCCAATAAA
GAGTCAGTAG TTTGGCAAAA AAAAAAAAAA AAAAAA

Figure 14

Figure 15

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGACTTGA GCGTTGAGGG
CGCGCGGGGA GCGAGCCAC CATGTTACAG CAGCAGCAGC AGCAGCTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTAAGTGCAG TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCGG
TCTACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
CATCCCCAGG CCTGCAGCC CCCAGCCTCA CACCCCAACA ACTGGCCACT
CCAAATTGTC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CCTTGCTGGG
ACCTCCTCCT GTTGGGGTCC CCATGAACCC TCCCCAGTTC AACCTTTTCA
GACGGAACCC CCAGAAACAG GCCCGGACCT CCTCCTCTAC CACCCCAAT
CGAAAGGATT CTCTTCTCA GACAATGCCT GTGGAAGACA AGTCAGACCC
CCCAGAGGGG TCTGAGGAAG CCGCAGAGCC CCGGATGGAC ACACCAGAA
ACCAAGATT ACCGCCCTGC CCAGAGGACA TCGCCAAGGA AAAACGCACT
CCAGCACCTG AGCCTGAGCC TTGTGAGGCG TCCGAGCTGC CAGCAAAGAG
ATTGAGGAGC TCAGAAGAGC CCACAGAGAA GGAACCTCCA GGGCAGTTAC
AGGTGAAGGC CCAGCCGAG GCCCGGATGA CAGTACCGAA ACAGACACAG
ACACCAGACC TGCTGCCTGA GGCCCTGGAA GCCCAAGTGC TGCCACGATT
CCAGCCACGG GTCTGACAG TCCAGGCCCA GGTGCAGTCA CAGACTCAGC
CGCGGATACC ATCCACAGAC ACCCAGGTGC AGCCAAAGCT GCAGAAGCAG
GCGCAACAC AGACCTCTCC AGAGCACTTA GTGCTGCAAC AGAAGCAGGT
GCAGCCACAG CTGCAGCAG AGGCAGAGCC ACAGAAGCAGGTGCAGCCAC
AGGTACAGCC ACAGGCACAT TCACAGGGCC CAAGGCAGGT GCAGCTGCAG
CAGGAGGCAG AGCCGCTGAA GCAGGTGCAG CCACAGGTGC AGCCCCAGGC
ACATTACAG CCCCCAAGGC AGGTGCAGCT GCAGCTGCAG AAGCAGGTCC
AGACACAGAC ATATCCACAG GTCCACACAC AGGCACAGCC AAGCGTCCAG
CCACAGGAGC ATCCTCCAGC GCAGGTGTCA GTACAGCCAC CAGACGAGC
CCATGAGCAG CCTCACACCC AGCCGACGGT GTCGTTGCTG GCTCCAGAGC
AAACACCACT GTGTGTTTCT GTCTGCGGGC TGGAGATGCC ACCTGATGCA
GTGAAGCTG GTGGAGGCAT GGAAGAGACC TTGCCAGAGC CTGTGGGCAC
CCAAGTCAGC ATGGAAGAGA TTCAGAATGA GTCGGCCTGT GGCCTAGATG
TGGGAGAATG TGAAACAGA GCGAGAGAGA TGCCAGGGGTATGGGGCCCC
GGGGGCTCCC TGAAGGTCAC CATTCTGCAG AGCAGTGACA GCCGGGCCTT
TAGCACTGA CCCCTGACAC CTGTCCCCCG CCCCAGTGAC TCCGTCTCT
CCACCCCTGC GGCTACCAGC ACTCCCTCTA AGCAGGCCCT CCAGTTCTTC
TGCTACATCT GCAAGGCCAG CTGTCCAGC CAGCAGGAGT TCCAGGACCA
CATGTGCGAG CCTCAGCACC AGCAGCGGCT AGGGGAGATC CAGCACATGA
GCCAAGCCTG CCTCCTGTCC CTGCTGCCCG TGCCCCGGA CGTCTGGAG
ACAGAGGATG AGGAGCCTCC ACCAAGGCGC TGGTGCAACA CCTGCCAGCT
CTACTACATG GGGGACCTGA TCCAACACCG CAGGACACAG GACCACAAGA
TTGCCAAACA ATCCTTGCGA CCCTTCTGCA CCGTTTGCAA CCGTACTTC
AAAACCCCTC GCAAGTTTGT GGAGCACGTG AAGTCCCAGG GGCATAAGGA
CAAAGCCAAAG GAGCTGAAGT CGCTTGAGAA AGAAATTGCT GGCCAAGATG
AGGACCACTT CATTACAGT GACGCTGTGG GTTGCTTCCA GGGTGATGAA
GAAGAGGAAG AGGATGATGA GGATGAAGAAGAGATCGAGGTTGAGGAGGA
ACTCTGCAAG CAGGTGAGGT CCAGAGATAT ATCCAGAGAG GAGTGGAAGG
GCTCGGAGAC CTACAGCCCC AATACTGCAT ATGGTGTGGA CTTCCTGGTG
CCCGTGATGG GCTATATCTG CCGCATCTGC CACAAGTTCT ATCAGACAA
CTCAGGGGCA CAGCTCTCCC ACTGCAAGTC CCTGGGCCAC TTTGAGAACC
TGCAGAAATA CAAGGCGGCC AAGAACCCCA GCCCAACCAC CCGACCTGTG
AGCCGCGGT GCGCAATCAA CGCCCGAAC GCTTTGACAG CCTGTTCAC
CTCCAGCGGC CGCCACCCCT CCCAGCCCA CACCCAGGAC AAAACACCCA
GCAAGGTGAC GGCTCGACCC TCCAGCCCC CACTACCTCG GCGCTAACC
CGCTCAAAA CCTGATAGAG GGACCTCCTT GTCCCTGGCC TGCTGGGTG
CAGATCTGCT AATGCTTTT AGGAGTCTGC CTGGAACCTT TGACATGGTT
CATGTTTTTA CTCAAATCC AATAAAACAA GGTAGTTTGG CTGTGCAAAA
AAAAAAAAAA AAAAAAAAAA AA

Figure 16

MFNPQLQQQQ QLQQQQQLQ QQLQQQLQ QQQQLQLQ LQQSPQAS
LSIPVSRGLP QQSSPQQLS LQGLHSTSL NGPMLQRALL LQQLQGLDQF
AMPPATYDGA SLTMPTATLG NLRAFNVTAP SLAAPSLTPP QMVTNQLQF
FPQATRQSLG GPPPVGVPIN PSQLNHSGRN TQKQARTPSS TTPNRKDS
QTVPLEDRD PTEGSEATE LQMDTCEDQD SLVGFDSMLS EPQVPEPEPF
ETLEPPAKRC RSSEESTEG PTGQPQARVQ PQTQMTAPKQ TQTFDRLPEP
PEVQMLPRIQ PQALQIQTOP KLLRQAQTQT SPEHLAPQD QVEPQVPSQP
PWQLQPRETD PPNQAQAQTQ PQPLWQAQSQ KQAQTQAHQ VPTQAQSQEQ
TSEKTQDQPO TWPQGSVPPP EQASGPACAT EPQLSSHAAE AGSDPKALP
EPVSAQSSD RSREASAGGL DLGECEKRAE EMLGMWAGS SLKVITLQSS
NSRAFNITPL TSGPRPGDST SATPAIASTP SKQSLQFFCY ICKASSSSQQ
EFQDHMSEAO HQQRLGEIQH SSQTCLLSLL PMPRDILEKE AEDPPKRW
NTCQVYVYVGD LIQHRRITQEH KVAQSLRPF CTICNR YFKT PRKFVEHVKS
QGHKDKAQEL KTLKETGSP DEDHFTVDA VGCESGQEE DEDDDEEE
EGEIEAEEEF CKQVKPRETS SEQGKGSETY NPNTAYGEDF LVPVMGYVCQ
ICHKFYDSNS ELRLSHCKSL AHFENLQKYK AKNPSPPTPR PVSRLKCAINA
RNALTALFTS SHQSPQDTP KMPSKVKPGS PGLPPPLRRS TRLKT

Figure 17

MF SQQQQLQQ QQLQQLQQ QLLQLQQLQQSPQ APLPM AVSRGLPPQQ PQQPLLNLQG TNSASLLNGS M
 LQRALLQLQ GL DQFAMP PATYDTAGLT MPTATLGNLR GYGMA SPGLA APSLTPQLATPN LQQFFPQ ATRQSLGPP PVGVPM
 NPSQ FNLSGRNPQK QARTSSSTPNRK DSSSQTM PVEDKSDPPE GSEEAAPRM DTPEDQDLPP CPEDIAKEKRTPA PEPEPCE ASEL
 PAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLP RFQP RVLQVQAQVQ SQTQPRIPST DTQVQPKLQK
 QAQTTSPEH LVLQKQVQP QLQQAEPQK QVQPQVQPAHSQGPQ VQLQQAEPKQV QPQVQPAHS QPPRQVQLQL QKQV
 QTQTP QVHT QAQSVQPEHPPAQV SVQPEQTHE QPHTQPQVSL LAPEQTPVVV HVC GLEMPD AVEAGGMEK TLPEPVGTQ
 V SMEEIQNESA CGLDVGECE N RAREMPGVWAGGSLKVITL QSSDSRAFST VPLTPVPRPS DSVSSTPAAT STPSKQALQFFCYICKA
 SCS SQQEFQDHMS EPQHQQRLGE IQHMSQACLL SLLPVPRDVLETEDEEPPR RWCNTCQLYY MGDLIQHRRRT QDHKIAKQSL RPF
 CTVCNR YFKTPRKFEVH VKSQGHKDKA KELKSLEKEI AGQDEDHFT VDAVGCFEGDEEEEDDEDE EEEVEEELC KQVRSRDISR E
 EWKGSETYS PNTAYGVDFL VPVMGYICRI CHKFYHSNSG AQLSHCKSLG HFENLQKYKA AKNPSTTTPVSRRCAINAR NALTALFIS
 S GRPPSQPNTQ DKTPSKVTAR PSQPPLPRRSTRLKT

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From exon 14
VEEELCKQ

The following sequence is inserted in one carcinoma derived library (MGC102) between the third and fourth zinc finger, altering the spacing between them.

PPTPRRDVFAHVPVQGWSTARLVITDM

Figure 19

From exons 2/3 (at least two versions)

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGACTTGA GCGTTGAGGGCGCGGGGA GCGAGGCCAC
CATGTTTCAGC CAGCAGCAGC AGCAGCTCCAGCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG
CTCCAGCAGCAGCAATTGCA GCAGCAGCAG TTA CTGCAGC TCCAGCAGCT GCTCCAGCAGTCCCCACCAC
AGGCC

CAGCAG CTCCAGCAGT TACAGCAGCA GCAGCTCCAG CAGCAGCAATTGCAGCAGCA GCAGTTACTG CAGC
TCCAGC AGCTGCTCCA GCAGTCCCCACCACA

Exon 4

GGACTGGAC CAGTTTGCAA TGCCACCAGC CACGTATGAC ACTGCCGGTCTCACCATGCC CACAGCAACA CTG

From exon 6

AGGATTCTTCTTC

From exon 8 (at least three versions)

CCACAGGTGC AGCCCCAGGC ACATTCACAG CCCCCAAGGC AGGTGCAGCTGCAGCTGCAG AAGCAGGTCC
AGACACAGAC ATATCC

CCACAGGTAC AGCCACAGGC ACATTCACAG GGCCCAAGGC AGGTGCAGCTGCAGCAGGAG GCAGAGCCGC
TGAAGCAGGT GCAGCCACAG GTGCAGCCCCAGGCACATTC ACAGCCCCCA AGGCAGGTGC AGCTGCAGCT
GCAGAACGAGGTCCAGACAC AGACATAT

CAGGTGCAGT CACAGACTCA GCCCGGATA CCATCCACAG ACACCCAGGTGCAGCCAAAG CTGCAGAAAG
AGGCGCAAC ACAGACCTCT CCAGAGCACTTAGTGTGCA ACAGAAAGCAG GTGCAGCCAC AGCTGCAGCA
GGAGCAGAGCCACAGAAAGC AGGTGCAGCC ACAGGTACAG CCACAGGCAC ATTACAGGGCCCAAGGCAG
GTGCAGCTGC AGCAGGAGGC AGAGCCGCTG AAGCAGGTGCAGCCACAGGT GCAGCCCCAG GCACATTAC
AGCCCCAAG GCAGGTGCAGCTGCAGCTGC AGAAGCAGGT CCAGACACAG ACATAT

From exon 14

GTTGAGGAGGAACCTGCAAGCAG

The following sequence is inserted in to Ciz1 transcripts in one carcinoma library (from Ciz1 intron 12)

GCCACCACACCAGAAAGAGATGTGTTTGCCACGTTCCAGTGCAGGGGTGGAGCACAGCCCCGGCTTGTACAGATAT

Figure 20A

Part of exons 2/3 absent
 MF SQQQQLQQQ QQ APLPM AVSRGLPPQQ PQQPLLNLQG TNSASLLNGS MLQRAILLQQLQ GL DQFAMP PATYDTAGLT MPTATLGNLR GYGMA SPGLA APSLTPPQLATPN LQOFFPQ
 ATRQSLGLPP PVGVMNPSQ FNLGRNPQK QARTSSSTTNRK DSSQTM PVEDKSDPPE GSEEAAPRM DTPEDQLPP CPEDIAKEKRTA PEPECE ASELPAKRLR SSEEPTKEP PGQL
 QVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQTQPRIPST DTQVQPKLQKAQTQTSPEH LVLQKQVQVQ OLQQAEPQK QVQVQVQAHSGQPRQ VQLQQA
 EPLKQV QPVQVQQAHS QPRQVQLQ KQVQVQVQV QVHT QAQPSVQVQHPHPA QV SVQPEQTHE QHTQVQVSL LAPEQTPVV HVC GLEMPDA VEAGGMEK TLPEPVGTQV SBE
 HIQNEA CGLDVGEEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVPRPS DSVSTPAAT STPSKQALQFFCYCKASC SQQEFQDHMS EPQHQRGLGB IQHMSOALL SLLPVRD
 VLETEDEEPPR RWCNTCQLYY MGDLIQHRT QDHIAKQSL RPFCTVCNRYFKTRKFVEH VKSQGHKDKA KELKLEKEI AGQDEDHFT VDAVGC FEGDEHEDEDE HEIEVEHEL K
 QVRSRDISR HEWKGSSETYS PNTAYGVDFLVPVMGYICRI CHKFYHNSG AQLSHCKSLG HFENLQKYKA AKNPSPTTRPVSRRCANAR NALTALFTSS GRPPSQPNTQ DKTPSKVTAR PSQPP
 LPRSTRLKT

Exon 4 absent
 MF SQQQQLQQQ QQLQQLQQQ QLLQQLQQSPQ APLPM AVSRGLPPQQ PQQPLLNLQG TNSASLLNGS MLQRAILLQQLGNLR GYGMA SPGLA APSLTPPQLA
 TPN LQOFFPQ ATRQSLGLPP PVGVMNPSQ FNLGRNPQK QARTSSSTTNRK DSSQTM PVEDKSDPPE GSEEAAPRM DTPEDQLPP CPEDIAKEKRTA PEPECE ASELPAKRLR SBE
 EPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQTQPRIPST DTQVQPKLQKAQTQTSPEH LVLQKQVQVQ OLQQAEPQK QVQVQVQAHSG
 GPRQ VQLQQAEPKQV QPVQVQQAHS QPRQVQLQ KQVQVQVQV QVHT QAQPSVQVQHPHPA QV SVQPEQTHE QHTQVQVSL LAPEQTPVV HVC GLEMPDA VEAGGMEK T
 LPEPVGTQV SMEHIQNEA CGLDVGEEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVPRPS DSVSTPAAT STPSKQALQFFCYCKASC SQQEFQDHMS EPQHQRGLGB IQH
 SQACLL SLLPVRD VLETEDEEPPR RWCNTCQLYY MGDLIQHRT QDHIAKQSL RPFCTVCNRYFKTRKFVEH VKSQGHKDKA KELKLEKEI AGQDEDHFT VDAVGC FEGDEHEDEDE
 DEDE HEIEVEHEL KQVRSRDISR HEWKGSSETYS PNTAYGVDFLVPVMGYICRI CHKFYHNSG AQLSHCKSLG HFENLQKYKA AKNPSPTTRPVSRRCANAR NALTALFTSS GRPPSQPNTQ
 DKTPSKVTAR PSQPP LPRSTRLKT

Part of exon 6 absent
 MF SQQQQLQQQ QQLQQLQQQ QLLQQLQQSPQ APLPM AVSRGLPPQQ PQQPLLNLQG TNSASLLNGS MLQRAILLQQL GL DQFAMP PATYDTAGLT MPTAT
 LGNLR GYGMA SPGLA APSLTPPQLATPN LQOFFPQ ATRQSLGLPP PVGVMNPSQ FNLGRNPQK QARTSSSTTNRK DSSQTM PVEDKSDPPE GSEEAAPRM DTPEDQLPP CPEDIAKEKRTA
 PEPECE ASELPAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQTQPRIPST DTQVQPKLQKAQTQTSPEH LVLQKQVQVQ OLQ
 EAEPQK QVQVQVQAHSGQPRQ VQLQQAEPKQV QPVQVQQAHS QPRQVQLQ KQVQVQVQV QVHT QAQPSVQVQHPHPA QV SVQPEQTHE QHTQVQVSL LAPEQTPVV HVC
 GLEMPDA VEAGGMEK TLPEPVGTQV SMEHIQNEA CGLDVGEEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVPRPS DSVSTPAAT STPSKQALQFFCYCKASC SQQEF
 QDHMS EPQHQRGLGB IQHMSOACLL SLLPVRD VLETEDEEPPR RWCNTCQLYY MGDLIQHRT QDHIAKQSL RPFCTVCNRYFKTRKFVEH VKSQGHKDKA KELKLEKEI AGQDE
 DHFT VDAVGC FEGDEHEDEDE HEIEVEHEL KQVRSRDISR HEWKGSSETYS PNTAYGVDFLVPVMGYICRI CHKFYHNSG AQLSHCKSLG HFENLQKYKA AKNPSPTTRPVSRRCANAR
 AR NALTALFTSS GRPPSQPNTQ DKTPSKVTAR PSQPP LPRSTRLKT

Exon 8 minus variant 1
 MF SQQQQLQQQ QQLQQLQQQ QLLQQLQQSPQ APLPM AVSRGLPPQQ PQQPLLNLQG TNSASLLNGS MLQRAILLQQL GL DQFAMP PATYDTAGLT MPT
 ATLGNLR GYGMA SPGLA APSLTPPQLATPN LQOFFPQ ATRQSLGLPP PVGVMNPSQ FNLGRNPQK QARTSSSTTNRK DSSQTM PVEDKSDPPE GSEEAAPRM DTPEDQLPP CPE
 DIAKEKRTA PEPECE ASELPAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQTQPRIPST DTQVQPKLQKAQTQTSPEH LVL
 QKQVQVQVQAHSGQPRQ VQLQQAEPKQV QPVQVQQAHS QPRQVQLQ KQVQVQVQV QVHT QAQPSVQVQHPHPA QV SVQPEQTHE QHTQVQVSL LAPEQTPVV HVC GLEMPDA VEAGG
 MEK TLPEPVGTQV SMEHIQNEA CGLDVGEEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVPRPS DSVSTPAAT STPSKQALQFFCYCKASC SQQEFQDHMS EPQHQR
 LGI IQHMSOACLL SLLPVRD VLETEDEEPPR RWCNTCQLYY MGDLIQHRT QDHIAKQSL RPFCTVCNRYFKTRKFVEH VKSQGHKDKA KELKLEKEI AGQDEDHFT VDAVGC
 FEGDEHEDEDE HEIEVEHEL KQVRSRDISR HEWKGSSETYS PNTAYGVDFLVPVMGYICRI CHKFYHNSG AQLSHCKSLG HFENLQKYKA AKNPSPTTRPVSRRCANAR NALTAL
 FTSS GRPPSQPNTQ DKTPSKVTAR PSQPP LPRSTRLKT

Figure 20B

Exon 8 minus variant 2
 MF SQQQQQLQQQ QQQQLQQQ QLLQLQQLLQQSPQ APPLM AVSRGLPPQQ PQQPLNLQG TNSASLLNGS MLQRAILLQQQL GL DQFAMP PATYDTAGLT
 MPTATLGNLR GYGMA SPGLA AFSLTPQLATPN LQOFFPQ ATRQSLGPP PVGVMNPSQ FNLGSRNPQK QARTSSSTPNRK DSSQTM PVEDKSDPPE GSEEA AEP RM DTPED
 QDLPP CPEDIAKEKRTPA PEPPECE ASELPAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQOTQPRPST DTQVQPKLQK
 QAQTQTSPEH LVLQKQVQP QLQQAEPQK QVQ P QVHT QAQSVQPEHPPAQV SVQPEQTHE QPHTPQVSL LAPEQTPVVV HVC GLEMPDDA VEAGGMEK TLPEVGTQ
 V SMEIQNES A CGLDVGCEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVRP
 ACCL SLLPVRDVLTEDEEPPR RWCNTCQLYY MGDLIQHRT QDHKIAKQSL RPFCTVCKRYFKTPRKFEH VKSQGHKDKA KELKSLEKEI AGQDEHFT VDAVGC FEGDEE
 HEHDEDB HEIVVEHEL C KQVRSRDISR HEWKGETYS PNTAYGVDFLVPVMGYICRI CHKFTYHNSG AQLSHCKSLG HFENLQKYA AKNPSPTTRPVSRRCAINAR NALTALFTSS
 GRPPSQPNTQ DKTPSKVTAR PSQPPLPRSTRLKT

Exon 8 minus variant 3
 MF SQQQQQLQQQ QQQQLQQQ QLLQLQQLLQQSPQ APPLM AVSRGLPPQQ PQQPLNLQG TNSASLLNGS MLQRAILLQQQL GL DQFAMP PATYDTAGLT
 MPTATLGNLR GYGMA SPGLA AFSLTPQLATPN LQOFFPQ ATRQSLGPP PVGVMNPSQ FNLGSRNPQK QARTSSSTPNRK DSSQTM PVEDKSDPPE GSEEA AEP RM DTPED
 QDLPP CPEDIAKEKRTPA PEPPECE ASELPAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQA P QVHT QAQSVQPEHPPAQV SV
 QPEQTHE QPHTPQVSL LAPEQTPVVV HVC GLEMPDDA VEAGGMEK TLPEVGTQV SMEIQNES A CGLDVGCEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVRP
 RPS DSVSSTPAAT STPSKQALQFFCYCKASC SQQEFQDHMS EPQHQRRLGE IQHMSQACLL SLLPVRDVLTEDEEPPR RWCNTCQLYY MGDLIQHRT QDHKIAKQSL RPFCTV
 TVCNRYFKTPRKFEH VKSQGHKDKA KELKSLEKEI AGQDEHFT VDAVGC FEGDEEHEHDEDE HEIVVEHEL C KQVRSRDISR HEWKGETYS PNTAYGVDFLVPVMGYICRI
 CHKFTYHNSG AQLSHCKSLG HFENLQKYA AKNPSPTTRPVSRRCAINAR NALTALFTSS GRPPSQPNTQ DKTPSKVTAR PSQPPLPRSTRLKT

Exon 14 minus variant
 MF SQQQQQLQQQ QQQQLQQQ QLLQLQQLLQQSPQ APPLM AVSRGLPPQQ PQQPLNLQG TNSASLLNGS MLQRAILLQQQL GL DQFAMP PATYDTAGLT
 MPTATLGNLR GYGMA SPGLA AFSLTPQLATPN LQOFFPQ ATRQSLGPP PVGVMNPSQ FNLGSRNPQK QARTSSSTPNRK DSSQTM PVEDKSDPPE GSEEA AEP RM DTPEDQ
 DLPP CPEDIAKEKRTPA PEPPECE ASELPAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQOTQPRPST DTQVQPKLQK
 QAQTQTSPEH LVLQKQVQP QLQQAEPQK QVQPVQPAHSGQPRQ VOLQQAEPKQV QPQVQPAHSGQPRQ QVHT QAQSVQPEHPPAQV SVQ
 PPEQTHE QPHTPQVSL LAPEQTPVVV HVC GLEMPDDA VEAGGMEK TLPEVGTQV SMEIQNES A CGLDVGCEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVRP
 S DSVSSTPAAT STPSKQALQFFCYCKASC SQQEFQDHMS EPQHQRRLGE IQHMSQACLL SLLPVRDVLTEDEEPPR RWCNTCQLYY MGDLIQHRT QDHKIAKQSL RPFCTV
 CNRYFKTPRKFEH VKSQGHKDKA KELKSLEKEI AGQDEHFT VDAVGC FEGDEEHEHDEDE HEIVVEHEL C KQVRSRDISR HEWKGETYS PNTAYGVDFLVPVMGYICRI CHKFTYHNSG
 AQLSHCKSLG HFENLQKYA AKNPSPTTRPVSRRCAINAR NALTALFTSS GRPPSQPNTQ DKTPSKVTAR PSQPPLPRSTRLKT

Also to be protected are transcripts which lack combinations of the variable exons. For example:-

Exon 4 and partial exon 6 minus variant
 MF SQQQQQLQQQ QQQQLQQQ QLLQLQQLLQQSPQ APPLM AVSRGLPPQQ PQQPLNLQG TNSASLLNGS MLQRAILLQQQLGNLR GYGMA SPGLA APS
 LTPQLATPN LQOFFPQ ATRQSLGPP PVGVMNPSQ FNLGSRNPQK QARTSSSTPNRK DSSQTM PVEDKSDPPE GSEEA AEP RM DTPEDQDLPP CPEDIAKEKRTPA PEPPECE
 ASELPAKRLR SSEEPTKEP PGQLQVKAQP QARMTVPKQTQTP DLLPEAL EAQVLPFRQP RVLQVQAQVQ SQOTQPRPST DTQVQPKLQKQQTSPHEH LVLQKQVQP QLQK
 HAEQK QVQPVQPAHSGQPRQ VOLQQAEPKQV QPQVQPAHSGQPRQ QVHT QAQSVQPEHPPAQV SVQPEQTHE QPHTPQVSL LAPEQT
 PVVV HVC GLEMPDDA VEAGGMEK TLPEVGTQV SMEIQNES A CGLDVGCEN RAREMPGVWAGGSLKVTIL QSSDSRAFT VPLTPVRPDSVSSTPAAT STPSKQALQF
 FCYCKASC SQQEFQDHMS EPQHQRRLGE IQHMSQACLL SLLPVRDVLTEDEEPPR RWCNTCQLYY MGDLIQHRT QDHKIAKQSL RPFCTVCKRYFKTPRKFEH VKSQG
 HKDKA KELKSLEKEI AGQDEHFT VDAVGC FEGDEEHEHDEDE HEIVVEHEL C KQVRSRDISR HEWKGETYS PNTAYGVDFLVPVMGYICRI CHKFTYHNSG AQLSHCKSLG
 HFENLQKYA AKNPSPTTRPVSRRCAINAR NALTALFTSS GRPPSQPNTQ DKTPSKVTAR PSQPPLPRSTRLKT

Part of exons 2/3 absent

TGGGGGGCTGC GGGGCCGGCC CATCCGTGGG GGCAGCTTGA GCGTTGAGGG
 CGCGCGGGGA GGCAGGCCAC CATGTTGAGC CAGCAGCAGC AGCAGCTCCA
 GCAACAGCAG GGGCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
 GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
 CCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
 CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCCCG
 TCTCACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
 CATCCCCAGG CCTCGCAGCC CCCAGCCTCA CACCCCCACA ACTGGCCACT
 CCAAAATTGC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CCTTGCTGGG
 ACCTCCTCCT GTTGGGGTCC CCATGAACCC TTCCAGTTC AACCTTTCA
 GACGGAACCC CCAGAAACAG GCCCGGACCT CCTCCTCTAC CACCCCCAAT
 CGAAAGGATT CTTCTTCTCA GACAATGCCT GTGGAAGACA AGTCAGACCC
 CCCAGAGGGG TCTGAGGAAG CCGCAGAGCC CCGGATGGAC ACACCAAGAG
 ACCAAGATTT ACCGCCCTGC CCAGAGGACA TCGCCAAGGA AAAACGCACT
 CCAGCACCTG AGCCTGAGCC TTGTGAGGCG TCCGAGCTGC CAGCAAAGAG
 ATTGAGGAGC TCAGAAAGAGC CCACAGAGAA GGAACCTCCA GGGCAGTTAC
 AGGTGAAGGC CCAGCCGAGC GCCCGGATGA CAGTACCGAA ACAGACACAG
 ACACCAGACC TGCTGCCTGA GGCCCTGGAA GCCCAAGTGC TGCCACGATT
 CCAGCCACGG GTCTGCAGG TCCAGGCCCA GGTGCAGTCA CAGACTCAGC
 CCGGATACC ATCCACAGAC ACCCAGGTGC AGCCAAAGCT GCAGAAGCAG
 GCGCAAACAC AGACCTCTCC AGAGCACTTA GTGCTGCAAC AGAAGCAGGT
 GCAGCCACAG CTGCAGCAGG AGGCAGAGCC ACAGAAGCAG GTGCAGCCAC
 AGGTACAGCC ACAGGCACAT TCACAGGGCC CAAGGCAGGT GCAGCTGCAG
 CAGGAGGCAG AGCCGCTGAA GCAGGTGCAG CCACAGGTGC AGCCCCAGGC
 ACATTCACAG CCCCCAAGGC AGGTGCAGCT GCAGCTGCAG AAGCAGGTCC
 AGACACAGAC ATATCCACAG GTCCACACAC AGGCACAGCC AAGCGTCCAG
 CCACAGGAGC ATCTCTCAGC GCAGGTGTCA GTACAGCCAC CAGAGCAGAC
 CCATGAGCAG CCTCACACCC AGCCGCAGGT GTCGTTGCTG GCTCCAGAGC
 AAACACCACT GTGTGTTTCAT GTCTGCGGGC TGGAGATGCC ACCTGATGCA
 GTAGAAGCTG GTGGAGGCAT GGAAGAGACC TTGCCAGAGC CTGTGGGCAC
 CCAAGTCAGC ATGGAAGAGA TTCAGAATGA GTCGGCTGT GGCCTAGATG
 TGGGAGAATG TGAAAACAGA GCGAGAGAGA TGCCAGGGGT ATGGGGCGCC
 GGGGGCTCCC TGAAGGTAC CATTCTGAG AGCAGTGACA GCCGGGCCTT
 TAGCACTGTA CCCCTGACAC CTGTCCCCCG CCCCAGTGAC TCCGTCTCCT
 CCACCCCTGC GGCTACCAGC ACTCCCTCTA AGCAGGGCCT CCAGTTCTTC
 TGCTACATCT GCAAGGCCAG CTGCTCCAGC CAGCAGGAGT TCCAGGACCA
 CATGTCCGAG CCTCAGCACC AGCAGCGGCT AGGGGAGATC CAGCACATGA
 GCCAAGCCTG CCTCCTGTCC CTGCTGCCCG TGCCCCGGGA CGTCTGGAG
 ACAGAGGATG AGGAGCCTCC ACCAAGGCGC TGGTGCAACA CCTGCCAGCT
 CTACTACATG GGGGACCTGA TCCAACACCG CAGGACACAG GACCACAAGA
 TTGCCAAACA ATCCTTGCGA CCCTTCTGCA CCGTTTGCAA CGCTACTTC
 AAAACCCCTC GCAAGTTTGT GGAGCACGTG AAGTCCAGG GGCATAAGGA
 CAAAGCCAAG GAGCTGAAGT CGCTTGAGAA AGAAATTGCT GGCCAAGATG
 AGGACCACTT CATTACAGTG GACGCTGTGG GTTGCTTCGA GGGTGATGAA
 GAAAGAGGAA AGGATGATGA GGATGAAGAA GAGATCGAGG TTGAGGAGGA
 ACTCTGCAAG CAGGTGAGGT CCAGAGATAT ATCCAGAGAG GAGTGGAAGG
 GTCGGAGAC CTACAGCCCC AATACTGCAT ATGGTGTGGA CTTCCTGGTG
 CCCGTGATGG GCTATATCTG CCGCATCTGC CACAAGTTCT ATCACAGCAA
 CTCAGGGGCA CAGCTCTCCC ACTGCAAGTC CCTGGGCCAC TTTGAGAACC
 TGCAGAAATA CAAGGCGGCC AAGAACCCCA GCCCACCAC CCGACCTGTG
 AGCCGCCGGT GCGCAATCAA CGCCCGGAAC GCTTTGACAG CCCTGTTTAC
 CTCAGCGGC CGCCACCCT CCCAGCCAA CACCCAGGAC AAAACACCCA
 GCAAGGTGAC GGCTCGACCC TCCAGCCCC CACTACCTCG GCGCTCAACC
 CGCCTCAAAA CCTGATAGAG GGACCTCCCT GTCCCTGGCC TGCCTGGGTC
 CAGATCTGCT AATGCTTTT AGGAGTCTGC CTGGAACTT TGACATGGTT
 CATGTTTTTA CTCAAAATCC AATAAAACAA GGTAGTTTGG CTGTGCAAAA
 AAAAAAAAAA AAAAAAAAAA AA

Exon 4 absent

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGACTTGA GCGTTGAGGG
CGCGCGGGGA GGGAGGCCAC CATGTTTCAGC CAGCAGCAGC AGCAGCTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTAAGTGCAGC TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGTAACC TCCGAGGCTA TGGCATGGCA TCCCCAGGCC TCGCAGCCCC
CAGCCTCACA CCCCCACAAC TGGCCACTCC AAATTGCAA CAGTTCTTTC
CCCAGGCCAC TCGCCAGTCC TTGCTGGGAC CTCCTCCTGT TGGGGTCCCC
ATGAACCTT CCAGTTCAA CTTTTCAGGA CGGAACCCCC AGAAACAGGC
CCGACCTCC TCCTCTACCA CCCCCAATCG AAAGGATTCT TCTTCTCAGA
CAATGCCTGT GGAAGACAAG TCAGACCCCC CAGAGGGGTC TGAGGAAGCC
GCAGAGCCCC GGATGGACAC ACCAGAAGAC CAAGATTTAC CGCCTTGCCC
AGAGGACATC GCCAAGGAAA AACGCACTCC AGCACCTGAG CTTGAGCCTT
GTGAGGCGTC CGAGCTGCCA GCAAAGAGAT TGAGGAGCTC AGAAGAGCCC
ACAGAGAAGG AACCTCCAGG GCAGTTACAG GTGAAGGCC AGCCGCAGGC
CCGGATGACA GTACCGAAAC AGACACAGAC ACCAGACCTG CTGCCTGAGG
CCCTGGAAGC CCAAGTGCTG CCACGATTCC AGCCACGGGT CCTGCAGGTC
CAGGCCCAGG TGCAGTCACA GACTCAGCCG CGGATACCAT CCACAGACAC
CCAGGTGCAG CCAAAGCTGC AGAAGCAGGC GCAAACACAG ACCTCTCCAG
AGCACTTAGT GCTGCAACAG AAGCAGGTGC AGCCACAGCT GCAGCAGGAG
GCAGAGCCAC AGAAGCAGGT GCAGCCACAG GTACAGCCAC AGGCACATT
ACAGGGCCCA AGGCAGGTGC AGCTGCAGCA GGAGGCAGAG CCGTGAAGC
AGGTGCAGCC ACAGGTGCAG CCCCAGGCAC ATTACAGCC CCAAGGCCAG
GTGCAGCTGC AGCTGCAGAA GCAGGTCCAG ACACAGACAT ATCCACAGGT
CCACACACAG GCACAGCCAA CGCTCCAGCC ACAGGAGCAT CCTCCAGCGC
AGGTGTCACT ACAGCCACCA GAGCAGACCC ATGAGCAGCC TCACACCCAG
CCGAGGTGT CTTTGTCTGG TCCAGAGCAA ACACAGTTG TGGTTTCACT
CTGCGGGCTG GAGATGCCAC CTGATGCAGT AGAAGCTGGT GGAGGCATGG
AAAAGACCTT GCCAGAGCCT GTGGGCACCC AAGTCAGCAT GGAAGAGATT
CAGAATGAGT CGGCCTGTGG CTTAGATGTG GGAGAATGTG AAAACAGAGC
GAGAGAGATG CCAGGGGTAT GGGGCGCCGG GGGCTCCCTG AAGGTCACCA
TTCTGCAGAG CAGTGACAGC CGGGCCTTTA GCACTGTACC CCTGACACCT
GTCCCCCGCC CCAAGTACTC CGTCTCCTCC ACCCTGCGG CTACCAGCAC
TCCCTCTAAG CAGGCCCTCC AGTTCTTCTG CTACATCTGC AAGGCCAGCT
GCTCCAGCCA GCAGGAGTTC CAGGACCACA TGTCGGAGCC TCAGCACCAG
CAGCGGCTAG GGGAGATCCA GCACATGAGC CAAGCCTGCC TCCTGTCCCT
GCTGCCCGTG CCCCAGGACG TCCTGGAGAC AGAGGATGAG GAGCCTCCAC
CAAGGCGCTG GTGCAACACC TGCCAGCTCT ACTACATGGG GGACCTGATC
CAACACCGCA GGACACAGGA CCACAAGATT GCCAAACAAT CTTGCGACC
CTTCTGCACC GTTGTCAACC GCTACTTCAA AACCCCTCGC AAGTTTGTGG
AGCACGTGAA GTCCCAGGGG CATAAGGACA AAGCCAAGGA GCTGAAGTGC
CTTGAGAAAG AAATTGCTGG CCAAGATGAG GACCACTTCA TTACAGTGG
CGCTGTGGGT TGCTTCGAGG GTGATGAAGA AGAGGAAGAG GATGATGAGG
ATGAAGAAGA GATCGAGGT GAGGAGGAAC TCTGCAAGCA GGTGAGGTCC
AGAGATATAT CCAGAGAGGA GTGGAAGGGC TCGGAGACCT ACAGCCCCAA
TACTGCATAT GGTGTGGAAT TCCTGGTGCC CGTGATGGGC TATATCTGCC
GCATCTGCCA CAAGTTCTAT CACAGCACT CAGGGGCACA GCTCTCCAC
TGCAAGTCCC TGGGCCACTT TGAGAACCTG CAGAAATACA AGGCGGCCAA
GAACCCAGC CCCACCACC GACCTGTGAG CCGCCGGTGC GCAATCAACG
CCCGGAACGC TTTGACAGCC CTGTTACCT CCAGCGGCCG CCCACCCTCC
CAGCCCAACA CCCAGGACAA AACACCCAGC AAGGTGACGG CTCGACCCTC
CCAGCCCCCA CTACCTCGGC GCTCAACCCG CCTCAAAACC TGATAGAGGG
ACCTCCCTGT CCTGGCCTG CTTGGGTCCA GATCTGCTAA TGCTTTTATG
GAGTCTGCCT GGAACCTTG ACATGGTTCA TGTTTTACT CAAAATCCAA
TAAACAAGG TAGTTTGCT GTGCAAAAAA AAAAAAAAAA AAAAAAAAAA

Exon 6 minus transcript

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGACTTGA GCGTTGAGGG
CGCGCGGGGA GCGAGGCCAC CATGTTTCAGC CAGCAGCAGC AGCAGTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTAAGTCAGC TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCCG
TCTACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
CATCCCCAGG CCTGCAGCC CCCAGCCTCA CACCCCCACA ACTGGCCACT
CCAAATTTGC AACAGTTCTT TCCCCAGGCC ACTGCCAGT CCTTGCTGGG
ACCTCTCTT GTTGGGGTCC CCATGAACCC TCCCCAGTTC AACCTTTTCA
GACGGAACCC CCAGAAACAG GCCCGGACCT CCTCTCTAC CACCCCCAAT
CGAAAGACAA TGCCTGTGGA AGACAAGTCA GACCCCCCAG AGGGGTCTGA
GGAAGCCGCA GAGCCCCGGA TGGACACACC AGAAGACCAA GATTACCCG
CCTGCCAGA GGACATCGCC AAGGAAAAAC GCACTCCAGC ACCTGAGCCT
GAGCCTTGTG AGGCGTCCGA GCTGCCAGCA AAGAGATTGA GGAGTCTAGA
AGAGCCACA GAGAAGGAAC CTCCAGGGCA GTTACAGGTG AAGGCCCAGC
CGCAGGCCCG GATGACAGTA CCGAAACAGA CACAGACACC AGACTGTCTG
CCTGAGGCCC TGGAAAGCCA AGTGCTGCCA CGATTCCAGC CACGGGTCT
GCAGGTCCAG GCCCAGGTGC AGTCACAGAC TCAGCCGCGG ATACCATCCA
CAGACACCCA GGTGCAGCCA AAGCTGCAGA AGCAGGCGCA AACACAGACC
TCTCCAGAGC ACTTAGTGCT GCAACAGAAG CAGGTGCAGC CACAGCTGCA
GCAGGAGGCA GAGCCACAGA AGCAGGTGCA GCCACAGTA CAGCCACAGG
CACATTCACA GGGCCCAAGG CAGGTGCAGC TGCAGCAGGA GGCAGAGCCG
CTGAAGCAGG TGCAGCCACA GGTGCAGCCC CAGGCACATT CACAGCCCCC
AAGGCAGGTG CAGCTGCAGC TGCAGAAGCA GGTCCAGACA CAGACATATC
CACAGGTCCA CACACAGGCA CAGCCAAGCG TCCAGCCACA GGAGCATCCT
CCAGCGCAGG TGTCAGTACA GCCACCAGAG CAGACCCATG AGCAGCTCA
CACCCAGCCG CAGGTGTCTG TGCTGGCTCC AGAGCAAACA CCAGTTGTGG
TTCATGTCTG CGGGCTGGAG ATGCCACCTG ATGCAGTAGA AGCTGGTGGA
GGCATGGAAG AGACCTTGCC AGAGCCTGTG GGCACCCAAG TCAGCATGGA
AGAGATTCAG AATGAGTCGG CCTGTGGCCT AGATGTGGGA GAATGTGAAA
ACAGAGCGAG AGAGATGCCA GGGGTATGGG GCGCCGGGGG CTCCCTGAAG
GTCACCATTC TGCAGAGCAG TGACAGCCGG GCCTTTAGCA CTGTACCCCT
GACACCTGTC CCCCAGCCCA GTGACTCCGT CTCCTCCACC CCTGCGGCTA
CCAGCACTCC CTCTAAGCAG GCCCTCCAGT TCTTCTGCTA CATCTGCAAG
GCCAGCTGCT CCAGCCAGCA GGAGTTCCAG GACCACATGT CGGAGCCTCA
GCACCAGCAG CGGCTAGGGG AGATCCAGCA CATGAGCCAA GCCTGCCTCC
TGTCCTGCT GCGGTGCCC CGGGACGTCC TGGAGACAGA GGATGAGGAG
CCTCCACCAA GCGCTGGTG CAACACCTGC CAGCTCTACT ACATGGGGGA
CCTGATCCAA CACCGCAGGA CACAGGACCA CAAGATTGCC AAACAATCCT
TGCGACCTT CTGCACCGTT TGCAACCGCT ACTTCAAAAC CCCTCGCAAG
TTGTGGAGC ACGTGAAGTC CCAGGGGCAT AAGGACAAAG CCAAGGAGCT
GAAGTCGCTT GAGAAAGAAA TTGCTGGCCA AGATGAGGAC CACTTCATTA
CAGTGAGCGC TGTGGGTGTC TTCGAGGGTG ATGAAGAAGA GGAAGAGGAT
GATGAGGATG AAGAAGAGAT CGAGGTTGAG GAGGAACTCT GCAAGCAGGT
GAGGTCCAGA GATATATCCA GAGAGGAGTG GAAGGGCTCG GAGACCTACA
GCCCCAATAC TGCATATGGT GTGGAATCC TGGTGCCCGT GATGGGCTAT
ATCTGCCGCA TCTGCCACAA GTTCTATCAC AGCAACTCAG GGGCAGAGCT
CTCCCACTGC AAGTCCCTGG GCCACTTTGA GAACCTGCAG AAATACAAGG
CGGCCAAGAA CCCCAGCCCC ACCACCCGAC CTGTGAGCCG CCGGTGCGCA
ATCAACGCCC GGAACGCTT GACAGCCCTG TTCACCTCCA GCGGCGCGCC
ACCTTCCCAG CCAACACCC AGGACAAAAC ACCCAGCAAG GTGACGGCTC
GACCTTCCA GCGCCCACTA CCTCGGCGCT CAACCCGCT CAAAACCTGA
TAGAGGGACC TCCCTGTCCC TGGCTGCCT GGGTCCAGAT CTGCTAATGC
TTTTTAGGAG TCTGCTGGA AACTTTGACA TGGTTCATGT TTTTACTCAA
AATCCAATAA AACAAGGTAG TTTGGCTGTG CAAAAAAAAA AAAAAAAAAA
AAAAAA

Figure 21D

Exon 8 minus variant 1

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGACTTGA GCGTTGAGGG
CGCGCGGGGA GCGAGCCAC CATGTTTCAGC CAGCAGCAGC AGCAGCTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTA CTGCAGC TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCGG
TCTCACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
CATCCCCAGG CCTCGCAGCC CCCAGCCTCA CACCCCCACA ACTGGCCACT
CCAAATTTGC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CTTGCTGGG
ACCTCCTCCT GTTGGGGTCC CCATGAACCC TTCCAGTTC AACCTTTCAG
GACGGAACCC CCAGAAACAG GCGCGGACCT CCTCCTCTAC CACCCCAAT
CGAAAGGATT CTCTTCTCA GACAATGCCT GTGGAAGACA AGTCAGACC
CCCAGAGGGG TCTGAGGAAG CCGCAGAGCC CCGGATGGAC ACACCAGAAG
ACCAAGATTT ACCGCCCTGC CCAGAGGACA TCGCCAAGGA AAAACGCACT
CCAGCACCTG AGCCTGAGCC TTGTGAGGCG TCCGAGCTGC CAGCAAAGAG
ATTGAGGAGC TCAGAAGAGC CCACAGAGAA GGAACCTCCA GGGCAGTTAC
AGGTGAAGGC CCAGCCGAG GCGCGGATGA CAGTACCGAA ACAGACACAG
ACACCAGACC TGCTGCCTGA GGCCCTGGAA GCCAAGTGC TGCCACGATT
CCAGCCACGG GTCCTGCAGG TCCAGGCCCA GGTGCAGTCA CAGACTCAGC
CGCGGATACC ATCCACAGAC ACCCAGGTGC AGCCAAAGCT GCAGAAGCAG
GCGCAAACAC AGACCTCTCC AGAGCACTTA GTGCTGCAAC AGAAGCAGGT
GCAGCCACAG CTGCAGCAGG AGGCAGAGCC ACAGAAGCAG TCGCAGCCAC
AGGTACAGCC ACAGGCACAT TCACAGGGCC CAAGGCAGGT GCAGCTGCAG
CAGGAGGCAG AGCCGCTGAA GCAGGTGCAG ACAG GTCCACACAC AGGCA
CAGCC AAGCGTCCAG
CCACAGGAGC ATCTCCAGC GCAGGTGTCA GTACAGCCAC CAGAGCAGAC
CCATGAGCAG CTCACACCC AGCCGCAGGT GTCGTTGCTG GCTCCAGAGC
AAACACCACT TGTGGTTTAT GTCTGCGGGC TGGAGATGCC ACCTGATGCA
GTAGAAGCTG GTGGAGGCAT GGAAAAGACC TTGCCAGAGC CTGTGGGCAC
CCAAGTCAGC ATGGAAGAGA TTCAGAATGA GTCGGCTGT GGCCTAGATG
TGGGAGAATG TGA AACAGA GCGAGAGAGA TGCCAGGGGT ATGGGGCGCC
GGGGGCTCCC TGAAGGTAC CATTCTGCAG AGCAGTGACA GCGGGGCTT
TAGCACTGTA CCCTGACAC CTGTCCCCG CCCCAGTGAC TCCGTCTCT
CCACCCCTGC GGCTACCAGC ACTCCCTCTA AGCAGGCCCT CCAGTTCTTC
TGCTACATCT GCAAGGCCAG CTGTCCAGC CAGCAGGAGT TCCAGGACCA
CATGTCCGAG CCTCAGCACC AGCAGCGGT AGGGGAGATC CAGCACATGA
GCCAAGCCTG CCTCCTGTCC CTGTGCCCC TGCCCCGGGA CGTCTGGAG
ACAGAGGATG AGGAGCCTCC ACCAAGGCGC TGGTGCAACA CCTGCCAGCT
CTACTACATG GGGGACCTGA TCCAACACCG CAGGACACAG GACCACAAGA
TTGCCAAACA ATCTTTGCGA CCCTTCTGCA CCGTTTGCAA CCGTACTTC
AAAACCCCTC GCAAGTTTGT GGAGCACGTG AAGTCCAGG GGCATAAGGA
CAAAGCCAAG GAGCTGAACT CGCTTGAGAA AGAAATGCT GGCCAAGATG
AGGACCACTT CATTACAGTG GACGCTGTGG GTTGCTTCTGA GGGTGATGAA
GAAGAGGAAG AGGATGATGA GGATGAAGAA GAGATCGAGG TTGAGGAGGA
ACTCTGCAAG CAGGTGAGGT CCAGAGATAT ATCCAGAGAG GAGTGGAAAG
GCTCGGAGAC CTACAGCCCC AATACTGCAT ATGGTGTGGA CTTCTGGTG
CCCGTGATGG GCTATATCTG CCGCATCTGC CACAAGTTCT ATCAGACAA
CTCAGGGGCA CAGCTCTCCC ACTGCAAGTC CCTGGGCCAC TTGAGAACC
TGCAGAAATA CAAGGCGGCC AAGAACCCCA GCCCCACCAC CCGACCTGTG
AGCCGCCGGT GCGCAATCAA CGCCCGGAAC GCTTTGACAG CCCTGTTTAC
CTCCAGCGGC CGCCACCCCT CCCAGCCCA CACCCAGGAC AAAACACCCA
GCAAGGTGAC GGCTCGACCC TCCCAGCCCC CACTACCTCG GCGCTCAACC
CGCTCAAAA CCTGATAGAG GGACCTCCCT GTCCCTGGCC TGCTGGGTG
CAGATCTGCT AATGCTTTT AGGAGTCTGC CTGGAACTT TGACATGGTT
CATGTTTTTA CTCAAAATCC AATAAAACAA GGTAGTTTGG CTGTGCAAAA
AAAAAAAAA AAAAAAAAAA AA

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Figure 21E

Exon 8 minus variant 2
TGGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGCACTGA GCGTTGAGGG
CGCGCGGGGA GCGGAGCCAC CATGTTTCAGC CAGCAGCAGC AGCAGCTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTAAGTCAGC TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGACTGG ACCAGTTTG AATGCCACCA GCCACGTATG AACTGCGCG
TCTCACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
CATCCCCAGG CCTCGCAGCC CCCAGCCTCA CACCCCCACA ACTGGCCACT
CCAAATTGTC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CTTGCTGGG
ACCTCCTCT GTTGGGGTCC CCATGAACCC TTCCAGTTT AACCTTTCAG
GACGGAACCC CCAGAAACAG GCCCGGACCT CCTCCTCTAC CACCCCCAAT
CGAAAGGATT CTCTTCTCA GACAATGCT GTGGAAGACA AGTCAGACCC
CCCAGAGGGG TCTGAGGAAG CCGCAGAGCC CCGGATGGAC ACACCAGAAG
ACCAAGATTT ACCGCCCTGC CCAGAGGACA TCGCCAAGGA AAAACGCACT
CCAGCACCTG AGCCTGAGCC TTGTGAGCG TCCGAGCTGC CAGCAAAGAG
ATTGAGGAGC TCAGAAAGAG CCACAGAGAA GGAACCTCCA GGCAGTTAC
AGGTGAAGGC CCAGCCGAG GCCCGGATGA CAGTACCGAA ACAGACACAG
ACACCAGACC TGCTGCCTGA GGCCCTGGA GCGCAAGTGC TGCCACGATT
CCAGCCACCG GTCTGCAGG TCCAGGCCCA GGTGCAGTCA CAGACTCAGC
CGCGGATACC ATCCACAGAC ACCCAGGTGC AGCCAAAGCT GCAGAAGCAG
GCGCAAACAC AGACCTCTCC AGAGCACTTA GTGCTGCAAC AGAAGCAGT
GCAGCCACAG CTGCAGCAGG AGGCAGAGCC ACAGAAGCAG GCATCTCCA
AGGTCCACAC ACAGGCACAG CCAAGCGTCC AGCCACAGGA GCATCTCCA
GCGCAGGTGT CAGTACAGCC ACCAGAGCAG ACCCATGAGC AGCCTCACAC
CCAGCCGAG GTGTCGTTG TGGCTCCAGA GCAAAACCA GTTGTGGTTT
ATGTCGCGG GCTGGAGATG CCACCTGATG CAGTAGAAGC TGGTGGAGG
GATTGAAAAG CTTGCCAGA GCCTGTGGG ACCCAAGTCA GCATGGAAGA
GAGCGAGAGA GATGCCAGG GTATGGGGG CCGGGGGCT CCTGAAGGT
ACCATCTGC AGAGCAGTGA CAGCCGGGCC TTAGCACTG TACCCCTGAC
ACCTGTCCCC CGCCCCAGT ACTCCGTCT CTCCACCCCT CGGGCTACCA
GCACTCCCTC TAAGCAGGCC CTCCAGTTCT TCTGCTACAT CTGCAAGGC
AGCTGCTCCA GCCAGCAGGA GTTCCAGGAC CACATGTCCG AGCCTCAGCA
CCAGCAGCG CTAGGGGAGA TCCAGCACAT GAGCCAAGCC TGCTCTCTGT
CCCTGTGCTGCC CGTGCCCCG GACGTCCTGG AGACAGAGGA TGAGGAGCCT
CCACCAAGGC GCTGGTGCAA CACCTGCCAG CTCTACTACA TGGGGGACCT
GATCCAACAC CGCAGGACAC AGGACCACAA GATTGCCAAA CAATCCTTGC
GACCCTTCTG CACCGTTTG AACCGCTACT TCAAAACCCC TCGCAAGTTT
GTGGAGCACG TGAAGTCCA GGGGCATAAG GACAAAGCCA AGGAGCTGAA
TGCGCTTGTG AAAGAAATG CTGGCCAAGA TGAGGACCAC TTCATTACAG
GAGGATGAAG AAGAGATCGA GGTGAGGAG GAACTCTGCA AGCAGGTGAG
GTCCAGAGAT ATATCCAGAG AGGAGTGGAA GGGCTCGAG ACCTACAGCC
CCAATACTGC ATATGGTGTG GACTTCTTGG TGCCCGTAT GGGCTATATC
TGCCGCATCT GCCACAAGTT CTATCACAGC AACTCAGGGG CACAGCTCTC
CCACTGCAAG TCCCTGGGCC ACTTTGAGAA CCTGCAGAAA TACAAGGCGG
CCAAGAACCC CAGCCCCACC ACCCGACCTG TGAGCCGCGG GTGCGCAATC
AACGCCGGA ACGCTTTGAC AGCCCTGTTT ACCTCCAGCG GCCGCCACC
CTCCAGCCC AACCCAGG ACAAACACC CAGCAAGGTG ACGGCTCGAG
CCTCCAGGCC CCCACTACCT CGGCGCTCAA CCGCCTCAA AACCTGATG
AGGGACCTCC CTGTCCTGG CCTGCTGGG TCCAGATCTG CTAATGCTT
TTAGGAGTCT GCCTGGAAC TTTGACATGG TTATGTTT TACTCAAAAT
CCAATAAAC AAGGTAGTTT GGCTGTGCAA AAAAAAAAAA AAAAAAAAAA

Exon 8 minus variant 3

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GGCAGCTTGA GCGTTGAGGG
CGCGCGGGGA GGCGAGCCAC CATGTTTCAGC CAGCAGCAGC AGCAGCTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTA CTGCAGC TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCGGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCGG
TCTCACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
CATCCCCAGG CCTGCAGCC CCCAGCCTCA CACCCCCACA ACTGGGCACT
CCAAATTGTC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CTTGCTGGG
ACCTCCTCCT GTTGGGGTCC CCATGAACCC TTCCAGTTC AACCTTTCAG
GACGGAACCC CCAGAAACAG GCCCGGACCT CCTCCTCTAC CACCCCCAAT
CGAAAGGATT CTTCCTCTCA GACAATGCCT GTGGAAGACA AGTCAGACCC
CCAGAGGGG TCTGAGGAAG CCGCAGAGCC CCGGATGGAC ACACCAGAAG
ACCAAGATTT ACCGCCCTGC CCAGAGGACA TCGCAAGGA AAAACGCACT
CCAGCACCTG AGCCTGAGCC TTGTGAGGCG TCCGAGCTGC CAGCAAAGAG
ATTGAGGAGC TCAGAAGAGC CCACAGAGAA GGAACCTCCA GGGCAGTTAC
AGGTGAAGGC CCAGCCGAG GCCCGGATGA CAGTACCGAA ACAGACACAG
ACACCAGACC TGCTGCCTGA GGCCCTGGAA GCCCAAGTGC TGCCACGATT
CCAGCCACGG GTCCTGCAGG TCCAGGCCCT CACAGGTCCA CACACAGGCA
CAGCCAAGCG TCCAGCCACA GGAGCATCCT CCAGCGCAGG TGTCAGTACA
GCCACCAGAG CAGACCCATG AGCAGCCTCA CACCCAGCCG CAGGTGTCTG
TGCTGGCTCC AGAGCAAACA CCAGTTGTGG TTCTGTCTG CCGGCTGGAG
ATGCCACCTG ATGCAGTAGA AGCTGGTGGA GGCGTGGAAA AGACCTTGCC
AGAGCCTGTG GGCACCCAAG TCAGCATGGA AGAGATTGAG AATGAGTCG
CCTGTGGCCT AGATGTGGGA GAATGTGAAA ACAGAGCGAG AGAGATGCCA
GGGGTATGGG GCGCCGGGGG CTCCCTGAAG GTCACCATTC TGCAAGCAG
TGACAGCCGG GCCTTAGCA CTGTACCCCT GACACCTGTC CCCCAGCCCA
GTGACTCCGT CTCTCCACC CTGCGGCTA CCAGCACTCC CTCTAAGCAG
GCCCTCCAGT TCTTCTGCTA CATCTGCAAG GCCAGCTGCT CCAGCCAGCA
GGAGTTCCAG GACCACATGT CGGAGCCTCA GCACCAGCAG CGGCTAGGGG
AGATCCAGCA CATGAGCCAA GCCTGCCTCC TGTCCTGCT GCCCGTGCCC
CGGGACGTCC TGGAGACAGA GGATGAGGAG CCTCCACCAA GCGCTGGTG
CAACACCTGC CAGCTCTACT ACATGGGGGA CTGATCCAA CACCGCAGGA
CACAGGACCA CAAGATTGCC AAACAATCCT TGCAACCTT CTGCACCGTT
TGCAACCGCT ACTTCAAAAC CCCTCGCAAG TTTGTGGAGC ACGTGAAGTC
CCAGGGGCAT AAGGACAAAG CCAAGGAGCT GAAGTCGCTT GAGAAAGAAA
TTGCTGGCCA AGATGAGGAC CACTTCATTA CAGTGGACGC TGTGGGTTGC
TTGAGGGTG ATGAAGAAGA GGAAGAGGAT GATGAGGATG AAGAAGAGAT
CGAGGTTGAG GAGGAACTCT GCAAGCAGGT GAGGTCCAGA GATATATCCA
GAGAGGAGTG GAAGGGCTCG GAGACCTACA GCCCCAATAC TGCAATATGGT
GTGGAATTCC TGGTGCCCGT GATGGGCTAT ATCTGCCGCA TCTGCCACAA
GTTCTATCAC AGCAACTCAG GGGCACAGCT CTCCCACTGC AAGTCCCTGG
GCCACTTTGA GAACCTGCAG AAATACAAGG CGGCCAAGAA CCCCAGCCCC
ACCACCCGAC CTGTGAGCCG CCGGTGCGCA ATCAACGCCC GGAACGCTTT
GACAGCCCTG TTCACCTCCA GCGGCCGCC ACCCTCCAG CCAACACCC
AGGACAAAAC ACCCAGCAAG GTGACGGCTC GACCTCCCA GCCCCACTA
CCTCGGCGCT CAACCCGCT CAAAACCTGA TAGAGGGACC TCCCTGTCCC
TGGCCTGCCT GGGTCCAGAT CTGCTAATGC TTTTAGGAG TCTGCCTGGA
AACTTGACA TGGTTCATGT TTTTACTCAA AATCCAATAA AACAAGGTAG
TTTGCTGTG CAAAAAAAAA AAAAAAAAAA AAAAAA

Figure 21G

Exon 14 minus transcript

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GGCAGCTTGA GCGTTGAGGG
CGCGCGGGGA GGCAGCCAC CATGTTTACG CAGCAGCAGC AGCAGCTCCA
GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
AGCAATTGCA GCAGCAGCAG TTAAGTCAGC TCCAGCAGCT GCTCCAGCAG
TCCCCACCAC AGGCCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
CCCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCGG
TCTCACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
CATCCCCAGG CCTCGCAGCC CCCAGCCTCA CACCCCCACA ACTGGCCACT
CCAAATTGTC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CTTTGCTGGG
ACCTCCTCCT GTTGGGGTCC CCATGAACCC TTCCAGTTT AACCTTTTCA
GACGGAACCC CCAGAAACAG GCCCGGACCT CCTCCTCTAC CACCCCCAAT
CGAAAGGATT CTTCTTCTCA GACAATGCCT GTGGAAGACA AGTCAGACCC
CCCAGAGGGG TCTGAGGAAG CCGCAGAGCC CCGGATGGAC ACACCAGAA
ACCAAGATT ACCGCCCTGC CCAGAGGACA TCGCCAGGA AAAACGCACT
CCAGCACCTG AGCCTGAGCC TTGTGAGGCG TCCGAGTGC CAGCAAAGAG
ATTGAGGAGC TCAGAAGAGC CCACAGAGAA GGAACCTCCA GGGCAGTTAC
AGGTGAAGGC CCAGCCGAGC GCCCGGATGA CAGTACCGAA ACAGACACAG
ACACCAGACC TGCTGCCTGA GGCCCTGGAA GCCCAAGTGC TGCCACGATT
CCAGCCACGG GTCTGCAGG TCCAGGCCCA GGTGCAGTCA CAGACTGCAG
GGCGGATACC ATCCACAGAC ACCCAGGTGC AGCCAAAGCT GCAGAAGCAG
GCGCAAACAC AGACCTCTCC AGAGCACTTA GTGCTGCAAC AGAAGCAGGT
GCAGCCACAG CTGCAGCAGG AGGCAGAGCC ACAGAAGCAG GTGCAGCCAC
AGGTACAGCC ACAGGCACAT TCACAGGGCC CAAGGCAGGT GCAGCTGCAG
CAGGAGGCAG AGCCGCTGAA GCAGGTGCAG CCACAGGTGC AGCCCCAGGC
ACATTACAG CCCCCAAGGC AGGTGCAGCT GCAGCTGCAG AAGCAGGTCC
AGACACAGAC ATATCCACAG GTCCACACAC AGGCACAGCC AAGCGTCCAG
CCACAGGAGC ATCTCCAGC GCAGGTGTCA GTACAGCCAC CAGAGCAGAC
CCATGAGCAG CCTCACACCC AGCCGCAGGT GTCGTTGCTG GCTCCAGAGC
AAACACCAGT TGTGTTTCAT GTCTGCGGGC TGGAGATGCC ACCTGATGCA
GTAGAAGCTG GTGGAGGCAT GGAAAAGACC TTCCAGAGC CTGTGGCCAC
CCAAGTCAGC ATGGAAGAGA TTCAGAATGA GTCGGCCTGT GGCCTAGATG
TGGGAGAATG TGAAGACAGA GCGAGAGAGA TGCCAGGGGT ATGGGGCGCC
GGGGGCTCCC TGAAGGTCAC CATTCTGCAG AGCAGTGACA GCGGGCCTT
TAGCACTGTA CCCCTGACAC CTGTCCCCCG CCCCAGTGAC TCCGTCTCCT
CCACCCCTGC GGCTACCAGC ACTCCTCTA AGCAGGCCCT CCAATTCTTC
TGCTACATCT GCAAGGCCAG CTGTCCAGC CAGCAGGAGT TCCAGGACCA
CATGTCGGAG CCTCAGCACC AGCAGCGGCT AGGGGAGATC CAGCACATGA
GCCAAGCCTG CCTCCTGTCC CTGTGCCCG TGCCCCGGGA CGTCTGGAG
ACAGAGGATG AGGAGCCTCC ACCAAGGCGC TGGTGCAACA CCTGCCAGCT
CTACTACATG GGGGACCTGA TCCAACACCG CAGGACACAG GACCACAAGA
TTGCCAAACA ATCCTTGCGA CCCTTCTGCA CCGTTTGCAA CCGTACTTC
AAAACCCCTC GCAAGTTTGT GGAGCACGTG AAGTCCCAGG GGCATAAGGA
CAAAGCCAAG GAGCTGAAGT CGCTTGAGAA AGAAATTGCT GGCCAAGATG
AGGACCACTT CATTACAGTG GACGCTGTGG GTTGCTTCGA GGGTGATGAA
GAAGAGGAAG AGGATGATGA GGATGAAGAA GAGATCGAGG TGAGGTCCAG
AGATATATCC AGAGAGGAGT GGAAGGGCTC GGAGACCTAC AGCCCCAATA
CTGCATATGG TGTGGACTTC CTGGTGCCCG TGATGGGCTA TATCTGCCGC
ATCTGCCACA AGTTCTATCA CAGCAACTCA GGGGCACAGC TCTCCACTG
CAAGTCCCTG GGCCACTTTG AGAACCTGCA GAAATACAAG GCGGCCAAGA
ACCCAGGCC CACCACCCGA CCTGTGAGCC GCCGGTGCGC AATCAACGCC
CGGAACGCTT TGACA GCCCT GTTCACCTCC AGCGGCCGCC CACCTCCCA
GCCAACACC CAGGACAAAA CACCCAGCAA GGTGACGGCT CGACCCCTCC
AGCCCCACT ACCTCGGCGC TCAACCCGCC TCAAAACCTG ATAGAGGGAC
CTCCCTGTCC CTGGCCTGCC TGGGTCCAGA TCTGCTAATG CTTTATGGA
GTCTGCCTGG AAACCTTGAC ATGTTTCATG TTTTACTCA AAATCCAATA
AAACAAGGTA GTTTGGCTGT GCAAAAAAAA AAAAAAAAAA AAAAAAAAAA

Also to be protected are transcripts which lack combinations of the variable exons. For example:-

Exon 14 and partial exon 6 minus variant

TGGGGGCTGC GGGGCCGGCC CATCCGTGGG GCGACTTGA GCGTTGAGGG
 CGCGCGGGGA GGCAGGCCAC CATGTTTCAGC CAGCAGCAGC AGCAGCTCCA
 GCAACAGCAG CAGCAGCTCC AGCAGTTACA GCAGCAGCAG CTCCAGCAGC
 AGCAATTGCA GCAGCAGCAG TTAAGTCAGC TCCAGCAGCT GCTCCAGCAG
 TCCCCACCAC AGGCCCCGTT GCCCATGGCT GTCAGCCGGG GGCTCCCCC
 GCAGCAGCCA CAGCAGCCGC TTCTGAATCT CCAGGGCACC AACTCAGCCT
 CCTCCTCAA CGGCTCCATG CTGCAGAGAG CTTTGCTTTT ACAGCAGTTG
 CAAGGACTGG ACCAGTTTGC AATGCCACCA GCCACGTATG AACTGCCCGG
 TCTCACCATG CCCACAGCAA CACTGGGTAA CCTCCGAGGC TATGGCATGG
 CATCCCCAGG CCTGCAGCC CCCAGCCTCA CACCCCCACA ACTGGCCACT
 CCAAATTTGC AACAGTTCTT TCCCCAGGCC ACTCGCCAGT CCTTGCTGGG
 ACCTCCTCCT GTTGGGGTCC CCATGAACCC TTCCAGTTT AACCTTTTCA
 GACGGAACCC CCAGAAACAG GCCCGGAOCT CCTCCTCTAC CACCCCCAAT
 CGAAAGACAA TGCCTGTGGA AGACAAGTCA GACCCCCAG AGGGGTCTGA
 GGAAGCCGCA GAGCCCCGGA TGGACACACC AGAAGACCAA GATTTACCGC
 CCTGCCCAGA GGACATCGCC AAGGAAAAAC GCACTCCAGC ACCTGAGCCT
 GAGCCTTGTG AGGCGTCCGA GCTGCCAGCA AAGAGATTGA GGAGCTCAGA
 AGAGCCCA GAGAAGGAAC CTCCAGGGCA GTTACAGGTG AAGGCCCAGC
 CGCAGGCCCG GATGACAGTA CCGAAACAGA CACAGACACC AGACCTGCTG
 CCTGAGGCCC TGGAGGCCA AGTGCTGCCA CGATTCCAGC CACGGGTCTT
 GCAGGTCCAG GCCCAGGTGC AGTCACAGAC TCAGCCGCGG ATACCATCCA
 CAGACACCCA GGTGCAGCCA AAGCTGCAGA AGCAGGCCGA AACACAGACC
 TCTCCAGAGC ACTTAGTGCT GCAACAGAA GAGGTGCAGC CACAGCTGCA
 GCAGGAGGCA GAGCCACAGA AGCAGGTGCA GCCACAGGTA CAGCCACAGG
 CACATTACCA GGGCCCAAGG CAGGTGCAGC TGCAGCAGGA GGCAGAGCCG
 CTGAAGCAGG TGCAGCCACA GGTGCAGCCC CAGGCACATT CACAGCCCCC
 AAGGCAGGTG CAGCTGCAGC TGCAGAAGCA GGTCCAGACA CAGACATATC
 CACAGGTCCA CACACAGGCA CAGCCAAGCG TCCAGCCACA GGAGCATCCT
 CCAGCGCAGG TGTCAGTACA GCCACCAGAG CAGACCCATG AGCAGCCTCA
 CACCCAGCCG CAGGTGTCTG TGCTGGCTCC AGAGCAAACA CCAGTTGTGG
 TTCATGTCTG CGGGCTGGAG ATGCCACCTG ATGCAGTAGA AGCTGGTGGA
 GGCATGGAAG AGACCTTGCC AGAGCCTGTG GGCACCCAAG TCAGCATGGA
 AGAGATTGAG AATGAGTCGG CTGTGGCCT AGATGTGGGA GAATGTGAAA
 ACAGAGCGAG AGAGATGCCA GGGGTATGGG GCGCCGGGGG CTCCCTGAAG
 GTACCATTC TGCAGAGCAG TGACAGCCG GCCTTTAGCA CTGTACCCCT
 GACACCTGTC CCCCAGCCCA GTGACTCCGT CTCCTCCACC CCTGCGGCTA
 CCAGCACTCC CTCTAAGCAG GCCCTCCAGT TCTTCTGCTA CATCTGCAAG
 GCCAGCTGCT CCAGCCAGCA GGAGTTCCAG GACCACATGT CGGAGCCTCA
 GCACCAGCAG CGGCTAGGGG AGATCCAGCA CATGAGCCAA GCCTGCCTCC
 TGTCCTGCT GCCCGTCCC CGGGACGTCC TGGAGACAGA GGATGAGGAG
 CCTCCACCAA GGCGCTGGTG CAACACCTGC CAGCTCTACT ACATGGGGGA
 CCTGATCCAA CACCGCAGGA CACAGGACCA CAAGATTGCC AAACAATCCT
 TGCAGCCCTT CTGCACCGTT TGCAACCGCT ACTTCAAAAC CCCTCGCAAG
 TTTGTGGAGC ACGTGAAGTC CCAGGGGCAT AAGGACAAAG CCAAGGAGCT
 GAAGTCGCTT GAGAAAGAAA TTGCTGGCCA AGATGAGGAC CACTTCATTA
 CAGTGGACGC TGTGGGTTGC TTCGAGGGTG ATGAAGAAGA GGAAGAGGAT
 GATGAGGATG AAGAAGAGAT CGAGGTGAGG TCCAGAGATA TATCCAGAGA
 GGAGTGGAAG GGCTCGGAGA CCTACAGCCC CAATACTGCA TATGGTGTGG
 ACTTCTGGT GCCCGTGATG GGCTATATCT GCCGCATCTG CCACAAGTTC
 TATCACAGCA ACTCAGGGGC ACAGCTCTCC CACTGCAAGT CCCTGGGCCA
 CTTTGAGAAC CTGCAGAAAT ACAAGGGGGC CAAGAACCCC AGCCCCACCA
 CCCGACCTGT GAGCCGCGG TGCGCAATCA ACGCCCGGAA OGCTTTGACA
 GCCCTGTTCA CCTCCAGCGG CGGCCACCC TCCAGCCCA ACACCCAGGA
 CAAAACACCC AGCAAGGTGA CGGCTCGACC CTCCAGCCC CCACTACCTC
 GGCCTCAAC CCGCCTCAA ACCTGATAGA GGGACCTCCC TGTCCCTGGC
 CTGCTGGGT CCAGATCTGC TAATGCTTTT TAGGAGTCTG CCTGGAAACT
 TTGACATGGT TCATGTTTTT ACTCAAAATC CAATAAAACA AGGTAGTTTG
 GCTGTGCAAA AAAAAAAAAA AAAAAAAAAA AAA

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